TEMPUS

User Manual

AKIYAMA™

GO LIFE

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Intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.

The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the use to the presence of un-insulated “dangerous voltage” within the unit.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE ANY COVER. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD. DO NOT USE THIS PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PRESENT BLADE TO PREVENT FIRE OR SHOCK HAZARD. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. TO PRVENT ELECTRICAL SHOCK, MATCH WIDE BLADE PLUG TO WIDE SLOT FULLY INSERT.

SAFETY INSTRUCTIONS AND GUARRANTY INFORMATION

1. Read Instructions. All the safety and operating instructions should be read before this product is operated.

2. Retain Instructions. The safety and operating instructions should be retained for future reference.

3. Heed Warnings. All warnings on the appliance and in the operating instructions should be adhered to.

4. Follow Instructions. All operating and use instructions should be followed; failure to do so can void this guarantee.

5. Water and Moisture. The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.

6. Carts and Stands. The appliance should be used only with a cart or stand that is recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn. Wall or Ceiling Mounting. The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

7. Heat. The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

8. Object and Liquid Entry. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

9. Damage Requiring Service. The appliance should be serviced by qualified service personnel when:

A: The power-supply cord or the plug has been damaged; or
B: Objects have fallen, or liquid has been spilled into the appliance; or
C: The appliance has been exposed to rain; or
D: The appliance does not appear to operate normally or exhibits a marked change in performance; or
E: The appliance has been dropped, or the enclosure damaged.

10. Servicing. In accordance with E.U. directives the user shall not attempt any service to the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel. Failure to follow this instruction can void this guarantee.

11. Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is the manufacturer's instructions have been adhered to.

12. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. The manufacturer will NOT take responsibility for non-recommended accessories.

13. Accessories. Do not place this product on an unstable cart, stand, tripod, bracket, or table. The product may fall, causing serious injury to a child or adult and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product.

14. Lightning. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.

15. Replacement Parts: When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

16. Use only cables in accordance with present standards, ask your dealer.

17. Do not use right away the equipment in case has been transported from a cold environment to a hot one. Moisture will appear, let it off for a while.

18. Cleaning. Do not use cleaning sprays where the controls are. The appliance should be cleaned only as recommended by the manufacturer. Clean by wiping with a cloth slightly damp with water. Avoid getting water inside the appliance.

19. Audio ON: When installation is complete and you are about to start using the unit. Before switching ON the unit DO lower the Mains and Headphones volume controls. Failure to do so can result in hearing injuries or amplification stage damage.

20. Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

21. For AC line powered units - Before returning repaired unit to user, use an ohm-meter to measure from both AC plug blades to all exposed metallic parts. The resistance should be more than 100,000 ohms.

22. To prevent fire or shock hazard. Do not use this plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to present blade, match wide blade plug to wide slot fully insert.

TERMS OF USE

Your unit comes with a serial number sticked on it. Do not tear the serial number; this can result in void guaranty.

SAFE AND EFICIENT USE

Select carefully the emplacement of the unit. Avoid placing it under direct sun exposure. Avoid humid and damp places or rough environments with excessive dust and vibrations and excessive heat or cold. Also keep it away from humming sources like the motors of whirl washers or transformers or similar appliances.
No liquids must be close to the unit so that they can be spilled on it. To completely disconnect the unit from you mains supply unplug the plug of the adapter from the wall electric outlet.
The switch that controls the supply of electrical power to the unit must be at easy reach in case is necessary a fast switch off.
WARNING: do not place the unit in a closed environment where is difficult to access the wall outlet.
Do not open the unit; it can cause personal injuries or the damage of the equipment.
When unplugging the power supply cable of the adaptor from the wall outlet, does not pull the cable. Take the plastic body of the plug and unplug it.
Do not handle roughly the controls of the unit you can shorten their lifespan.
Before moving the equipment, remember to unplug all cables.
Do not use chemical solvent to clean the unit. A dry and clean cloth will do fine.
Safe this manual at reach so you can go back to the basic in case you need it.

PRELIMINARY

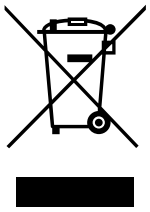
Check the contents of the TEMPUS box and find the following items:

1- Controller
1- Installation and instructions CD
1- Quick Guide
1- Traktor LE CD
1- USB Cable (PC/MIDI)
1- Transfomer AC/DC

FIRST STEPS

Caution on installation

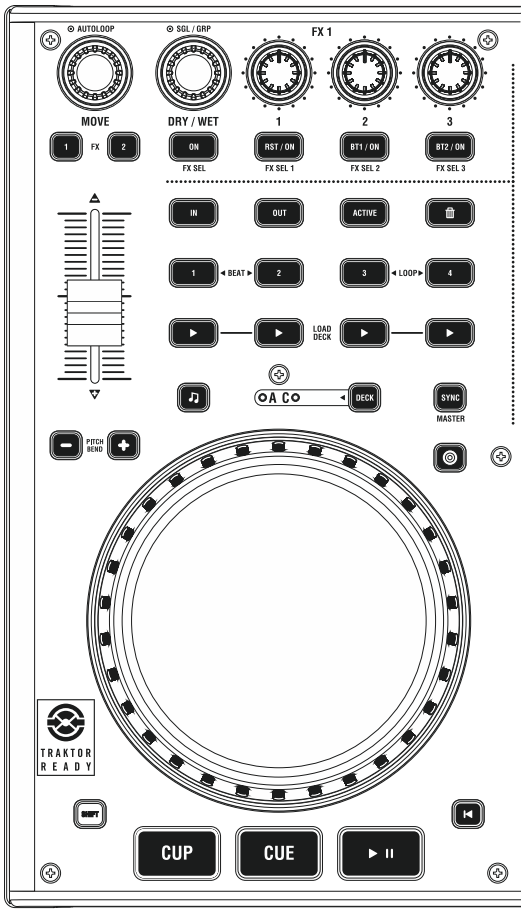
Install the equipment on a stable and horizontal surface.
Avoid placing it under direct sun exposure humid and damp places or rough environments.
Place the equipment as far away as possible of other audio equipment as radios TVs etc.



This product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.
The recycling of materials will help to conserve natural resources.
For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

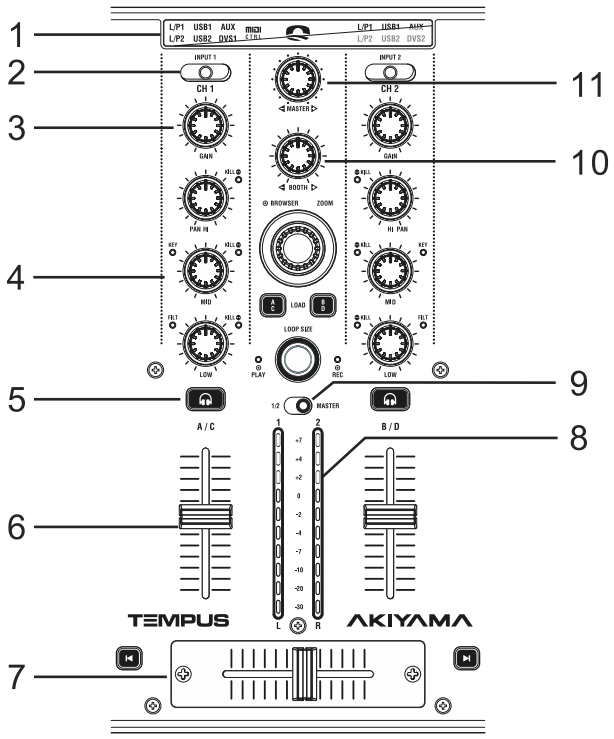
1. CONTROLS AND CONNECTIONS

1.1. Deck Panel



1. Controls distribution for an optimal use of Virtual DJ and Traktor 2.
2. Control of up to 4 Decks. MIDI notes are sent through different MIDI channels upon selection; DECK A/B or C/D. LEDs status are refreshed by firmware.
3. Illuminated high-resolution touch-sensitive jog wheel with sensibility adjustment.
4. Durable large-size Cue, Play and Cue Play buttons.
5. Dual FX units control with 4 knobs and 4 buttons for each unit.
6. Independent 8 samples buttons for sample.

1.2. Mixer Panel



1. Input Select Display: Display the selected inputs included L/P1 (Line/Phono 1), L/P2 (Line/Phono 2), USB1 (from PC), USB2 (from PC), AUX and DVS (from PC). MIDI CTRL indicates if the mixer section is in MIDI controller mode to control the mixer section in the DJ software.

2. Channel Input Source Switch: In Mixer Mode selects the input source for each channel. You can switch among Line/Phono 1 (L/P1), Line/Phono 2 (L/P2), USB (from computer), AUX, and DVS (from computer). In MIDI mode selects which input will be sent across the USB.

NOTE: Hold the Left Deck "Deck Switch" and switch the input select switch to keep your last selection in the device system memory.

The difference between USB and DVS (Digital Vinyl System Direct Mode) is the signals the device sends across the USB. If USB is selected MASTER and Microphone are send to the computer like for the rest of selections while if DVS is selected L/P is send instead. When you use time code vinyl to control DJ software you have to switch to the DVS mode. If you wish to apply some effects of your software to any input before mixing them you have to switch to the DVS mode as well.

Under MIDI Control Mode You can switch the input selections among L/P1 (Line1/Phono1), L/P2 (Line2/Phono2) and AUX. If AUX is selected on the right channel (CH 2), microphone signal will be send to the sound card.

3. Channel Gain Control: This adjustment is used to adjust an audio source signal input gain for a channel. Never use the gain control to adjust output volume. Setting the gain level properly will ensure a clean output signal.

NOTE: To properly set the gain level controls:

(1) Be sure the Master Volume Control is set to minimum.

(2) Set the Channel Fader to level 7.

4. Channel EQ:

HIGH: This knob is used to adjust the treble (high-range) frequency sound for each channel. The adjustable range is from -35dB to +10dB. Press this button to active kill function to the lowest level "-35dB".

MID: This knob is used to adjust the mid-range frequency sound for each channel. The adjustable range is from -35dB to +10dB. Press this button to active kill function to the lowest level "-35dB".

LOW: This knob is used to adjust the bass (low-range) frequency sound for each channel. The adjustable range is from -35dB to +10dB. Press this button to active kill function to the lowest level "-35dB".

NOTE: You can turn on or turn off the EQ kill function using the setup program.

5. Channel CUE Button: Pressing in one or both CUE buttons routes the respective source to the headphone and meter cue sections. Pressing multiple buttons makes it possible to drive mixed sound from the selected sources.

6. Channel Fader: These faders are used to control the volume of the output signal of any source assigned to its particular channel.

7. Crossfader: This fader is used to blend the output signals of channels 1 and 2 together. When the fader is in the full left position (channel 1), the output signal of channel 1 will be controlled by the master volume level. The same fundamentals will apply for channel 2. Sliding the fader from one position to another will vary the output signals of channels 1 and 2 respectively. When the crossfader is set in the center position, the output signals of both channels 1 and 2 will be even.

8. Level Meter: The dual LED's indicators are used to detail either the master output level, a combination of the master output level or the PGM monaural level.

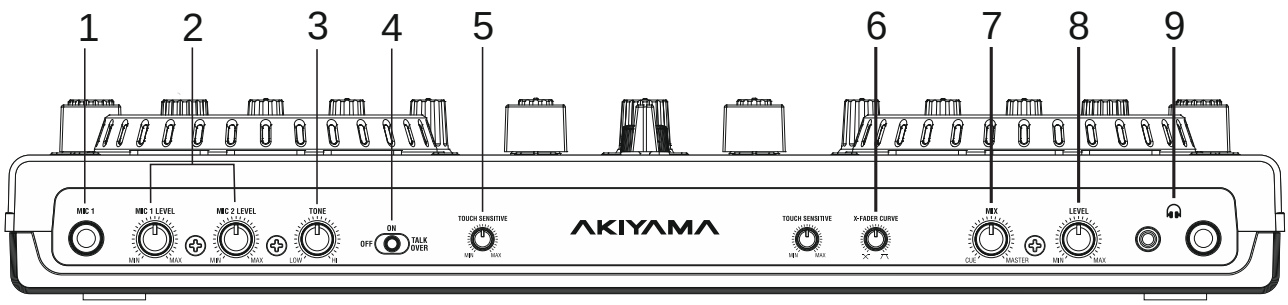
9. Level Meter Display Switch: This switch is used to choose between master level indicators and channel level indicators.

10. Booth Control Knob: This rotary knob is used to control the level of the booth output terminal on the rear panel. The booth level is not affected by the master volume.

11. Master Volume Control: This rotary knob is used to control the master output level (volume). To avoid distorted output try to maintain an average output signal level of +4dB.

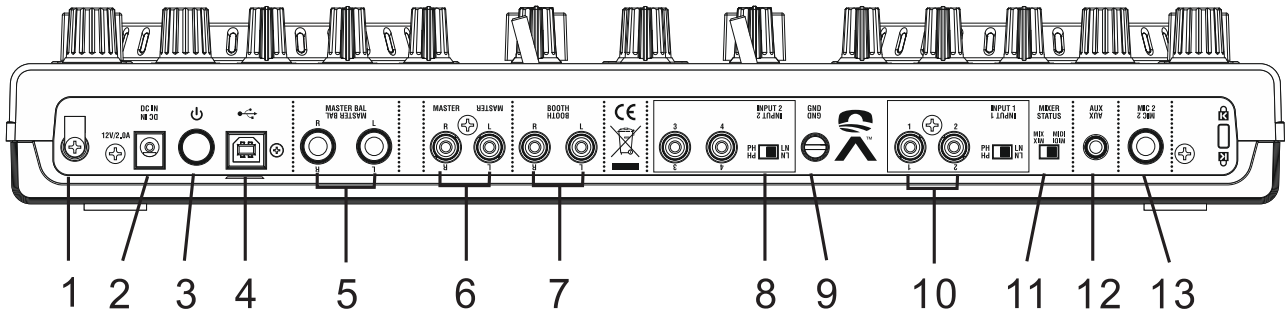
CAUTION: To avoid speaker damage that may be caused by excessive volume, be sure this adjustment is always set to zero before turning the unit on.

1.3. Front panel



1. MIC 1 Jack: This jack is used to connect a microphone to the mixer. Connect your microphone via 1/4 inch jack. The volume output level for microphone will be controlled by its own respective volume knob.
2. MIC LEVEL Control: These rotary knobs control the output volume of MICROPHONE 1 and 2.
3. MIC TONE Control: This rotary knob controls the frequency response of MICROPHONE.
4. MIC ON/OFF/TALKOVER Switch: Activate or deactivate the mix of MIC input with Master. When it is switched to the talkover position, the level for everything other than the MIC will decrease to around 20dB. Microphone signal is send to the sound card depending on the selection of the channel select switch as explained on point 1.2-2 independently on the position of the on/off/talkover switch. So if you need to mix the microphone signal with Master, you must select on or talkover. If you want to have the microphone signal available on the software but don't mix it with Master you must select off.
5. TOUCH SENSOR LEVEL Control: Adjust level of touch sensitivity for the Jog Wheel.
NOTE: The touch sensitivity of the jog wheel can be adjusted to fit the needs and feel of different users. When adjusting the sensitivity, be conscious of extreme settings which may affect your performance. Setting the sensitivity too high would engage the touch sensitivity with the hand just above the wheel. Setting the sensitivity too low may not engage the touch even while pressing firmly on the wheel.
6. X-FADER CURVE Switch: Allows adjusting the slope of crossfader. Rotate clockwise to shorten fade time with sharper cut off at either end. Rotate anti-clockwise to lengthen fade to gradually mix across fader and 50/50 mix in center only.
7. MONITOR MIXING MODE Selector: This function allows you to monitor the Cue level as well as the Master (main output) level in your headphones. Channels Cue Level may only be monitored if the channel CUE function is selected. To select a channel cue function press the CUE BUTTON that is directly associated with the specific channel you wish to monitor. You may use the mixing function to blend both the Cue level and the MASTER level together. You can vary the output level to either hear more or less of either of the two levels. Turning the Cue Mixing knob to the CUE position (left) will allow you to hear more of the Cue level. Turning the knob to the MASTER position (right) will allow you to hear more of the Program level (main output). You may also use the Cue Mixing Control to hear either the Cue level or the Master level exclusively. If the knob is in the full CUE position you will only hear the cue level, if the knob is in the full MASTER position you will only hear the main output. This function is especially useful when mixing without a monitor. Adjust the balance for the CUE and master output to the headphone.
8. CUE LEVEL Control: This rotary knob is used to adjust the headphone volume output level. Turn the knob in a clockwise direction to increase the headphone volume.
9. PHONES Jacks: These jacks are used to connect your headphones to the device allowing you to monitor the cue channel. Always be sure the CUE LEVEL VOLUME is set to minimum before you put the headphones on.

1.4. Rear panel

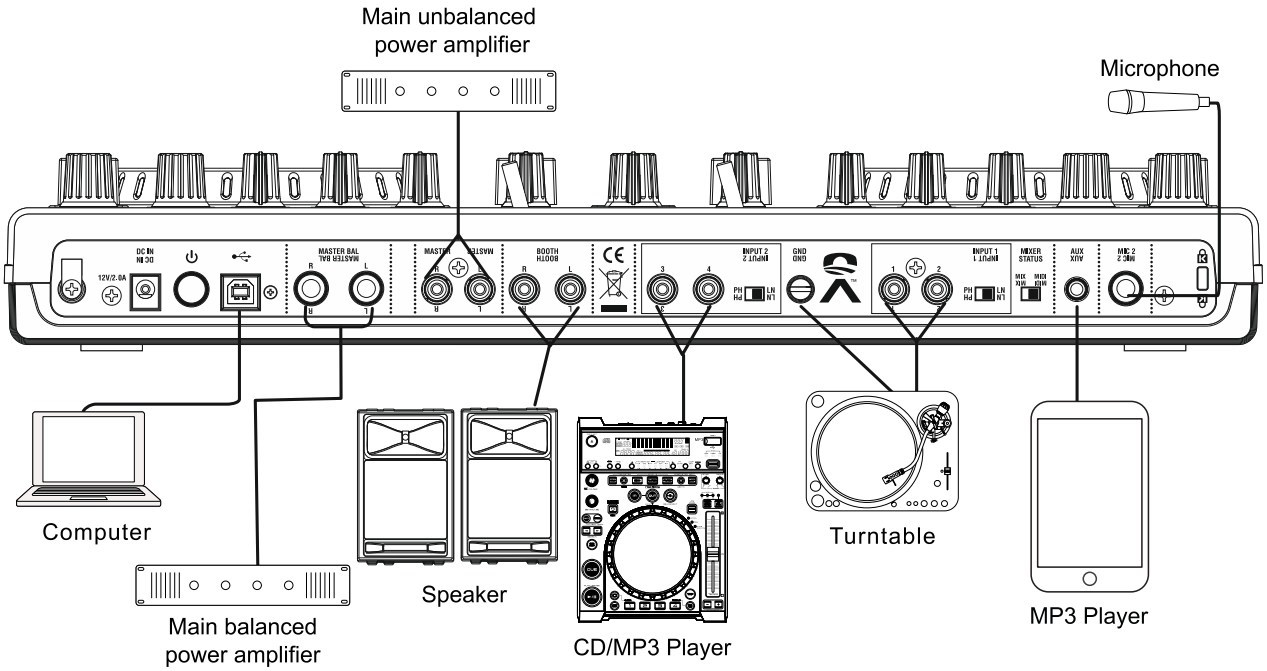


1. POWER CORD Fastener: To fasten the power cord to avoid unplugging the cord by accident.
2. POWER Connector: Plug in power adapter here. Please use only a 12V 2.0A DC adaptor.
3. POWER Switch: Turn this unit power ON/OFF.
4. USB MIDI Port: After hooking up your computer with the USB 1.1 Connections, your computer will detect them respectively as an external sound card (USB Code). You may either play music on your computer or send it via the USB 1.1 Connections as a signal source to the device; alternatively, you may record the Master output signal on your computer using the USB 1.1 Connection.
NOTE:
(1) The sent Master Output Signal is not influenced by the position of the volume controls. To use the USB 1.1 connection, please also refer to the operation manual of your computer and the programmers used.
(2) USB cable no more than 3m long.
5. BALANCED XLR MASTER OUTPUT Jacks: The Master Output includes a pair of XLR Balanced jacks.
The XLR jacks send a high current balanced output signal. These jacks should be used when you will be driving an amp or other audio equipment with a balanced input, or whenever you will be running a signal line greater than 15 feet. Always, use these jacks whenever possible.

6. RCA MASTER OUTPUT Jacks：The RCA jacks send a low current unbalanced output signal.
CAUTION: These jacks should only be used for shorter cable runs to signal processors or looping to another mixer. For cable runs greater than 15 feet use the XLR BALANCED jacks.
7. BOOTH OUTPUT Jacks: Connect to inputs of your active monitors using cables with RCA connectors.
8. PHONO/ LINE SELECTOR Switch: These switches are used to change the voltage line levels of the respected PHONO/ LINE RCA inputs jacks. When connecting turntables with magnetic cartridges to these jacks be sure the corresponding switch is in the "PHONO" position, and when using line level input devices be sure the switch is in the "LINE" position.
CAUTION: Always be sure main power is shut off before change the position of the Line Level Selector Switch.
9. GND (GROUND TERMINAL)：Be sure to connect turntable ground leads to either or both of the two available ground terminals. This will reduce the humming and popping noises associated with magnetic phono cartridges.

10. CHANNEL PHONO/ LINE INPUT Connectors: Turntables equipped with MM pickup cartridge (All DJ turntable use MM pickup cartridges) may be connected to these jacks as long as the PHONO/ LINE selector switches is in the "PHONE" position. CD players, Tape Decks and other line level instruments may only be connected to these jacks as long as the PHONO/ LINE selector switches is in the "LINE" position. Input volume will be controlled by the Channel gain control knob.
11. MIXER STATUS Switch：You change the Mixer section as a software controller instead of a real mixer. Under software control mode the input select display show "MIDI CTRL".
12. AUX IN Jack：CD players, MP3 Player, Tablet Pad and other line level instruments may only be connected to this jack. Input volume will be controlled by the channel fader. The channel Source Selector Switch must be in the "Aux" position, to monitor any source connected to this jack.
13. MIC 2 Jack：This jack is used to connect a microphone to the mixer. Connect your microphone via 1/4 inch jack. The volume output level for microphone will be controlled by its own respective volume knob.

1.5. Connections



1. Before making or changing connections, switch off the power and disconnect the power cord from the AC outlet.
2. Quality cables make a big difference in fidelity and punch. Use high-quality, audio cables.
3. Do not use excessively long cables. Be sure plugs and jacks are securely fastened. Loose connections cause hum, noise, or intermittence that could damage your speakers.
4. Connect the RCA pin cords to the inputs on your amplifier.
CAUTION: Be sure to use the supplied control cord. Using another type of cable may result in damage.
5. Connecting to a Computer – Support computer operating systems include Windows Vista, Window XP, and MAC OS X or later.

2. SOFTWARE INSTALATION AND SETUP

Before you can start using Akiyama TEMPUS it is necessary to install Akiyama ASIO drivers to optimize the performance of the sound card of TEMPUS.
ASIO drivers can only be installed on Windows. MAC uses CoreAudio drivers which don't need to be installed.
Also you will need DJ Software. We will explain how to install Traktor 2 LE and how to configure Traktor 2 LE as well as Traktor 2 PRO.

2.1. TEMPUS Akiyama ASIO Drivers

After connecting TEMPUS to your computer USB port, the hardware will be recognised as an audio device. Now you can start using TEMPUS, however we strongly recommend the installation of the purpose designed TEMPUS Akiyama ASIO drivers. If you are going to use the inputs then you must install the TEMPUS Akiyama ASIO drivers.
For multi soundcard configurations, download the generic Akiyama ASIO Drivers for free at www.akiyamadj.com. You will find more information about the Akiyama ASIO drivers in the manual that is installed together with the drivers.

System Requirements:

In order to successfully run TEMPUS Akiyama ASIO Drivers, you need a WDM-compatible operating system, such as Win98SE /ME /2k /XP /2003 /XP64/ Windows Vista x86/x64 or Windows 7 x86/x64

2.1.1. Akiyama ASIO drivers' installation

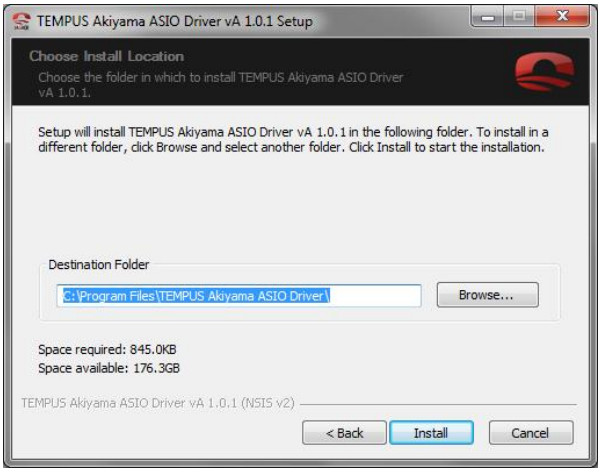
Double click the icon of the file:
TEMPUS_Akiyama_ASIO_Driver_Setup.exe. Installation will start at once. Firstly, it will appear the welcome window as seen below.

TEMPUS Akiyama ASIO Driver vA 1.0.1 Setup
Welcome to the TEMPUS Akiyama ASIO Driver vA 1.0.1 Setup Wizard
This wizard will guide you through the installation of TEMPUS Akiyama ASIO Driver vA 1.0.1.
It is recommended that you close all other applications before starting Setup. This will make it possible to update relevant system files without having to reboot your computer.
Click Next to continue.
Next >
Cancel

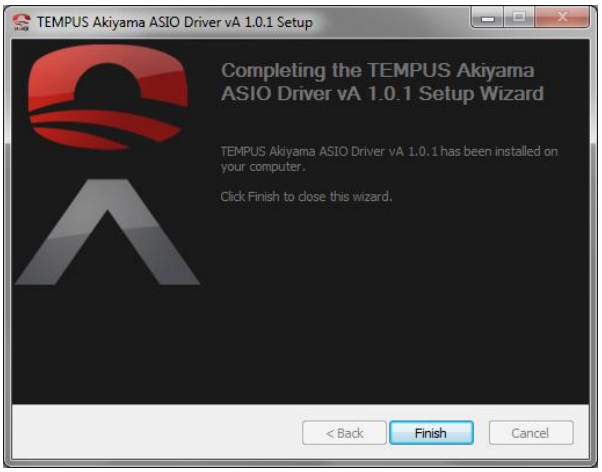
Before click "Next" read the information at welcome window. While installing the drivers we recommend you close all other applications running in your computer. This will enable important file upgrades without the need to reboot the computer. Select "Next" to start the installation. Following license agreement window will appear.

TEMPUS Akiyama ASIO Driver vA 1.0.1 Setup
License Agreement
Please review the license terms before installing TEMPUS Akiyama ASIO Driver vA 1.0.1.
Press Page Down to see the rest of the agreement.
END USER LICENSE AGREEMENT
This software is provided "as is" and comes without any kind of warranty, either expressed or implied, including, but not limited to the implied warranties of merchantability or fitness for a particular purpose.
Non-exclusive permission to use this software in its unmodified form and for its intended end user purpose only is hereby granted. Unauthorized redistribution prohibited.
Licensed to Akiyama.
If you accept the terms of the agreement, click I Agree to continue. You must accept the agreement to install TEMPUS Akiyama ASIO Driver vA 1.0.1.
I accept the terms of the License Agreement
TEMPUS Akiyama ASIO Driver vA 1.0.1 (NSIS v2)
< Back
Next >
Cancel

Select the accept box and press "Next".


TEMPUS Akiyama ASIO Driver vA 1.0.1 Setup
Choose Install Location
Choose the folder in which to install TEMPUS Akiyama ASIO Driver vA 1.0.1.
Setup will install TEMPUS Akiyama ASIO Driver vA 1.0.1 in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.
Destination Folder
C:\Program Files\TEMPUS Akiyama ASIO Driver\
Browse...
Space required: 845.0KB
Space available: 176.3GB
TEMPUS Akiyama ASIO Driver vA 1.0.1 (NSIS v2)
< Back
Install
Cancel

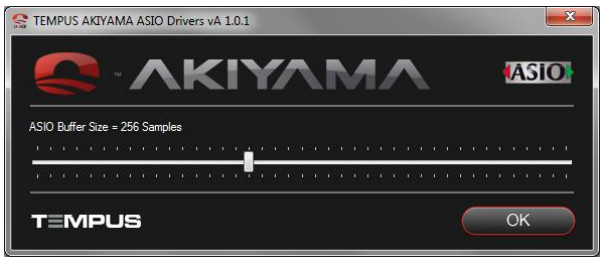
Select the folder where the driver will reside, by default it will be: C:\Program Files\TEMPUS Akiyama ASIO Driver\
To select another folder click "Browse…" and search for the desired folder. Following select "Install".


TEMPUS Akiyama ASIO Driver vA 1.0.1 Setup
Completing the TEMPUS Akiyama ASIO Driver vA 1.0.1 Setup Wizard
TEMPUS Akiyama ASIO Driver vA 1.0.1 has been installed on your computer.
Click Finish to close this wizard.
< Back
Finish
Cancel

Finally press "Finish" to exit install wizard.

2.1.2. Akiyama ASIO drivers Configuration

At the DJ Software select drivers' configuration and the following window will appear.



Set "ASIO Buffer Size". There is not an optimal buffer size since this parameter will depend upon many factors. As a rule of thumb lower the "ASIO Buffer Size" until you can hear noises and distortion when playing audio. When this happens, raise a little the "ASIO Buffer Size" until no unwanted sound appears at the audio. To exit press "OK".
Next you have to configure the DJ Software inputs and outputs as explained in the chapter related to Traktor Setup Wizard in this manual.

2.2. Traktor 2

TEMPUS is bundled with Traktor 2 LE. We will go through the steps to install and configure Traktor 2 LE and PRO to be controlled by TEMPUS.

System Requirements:

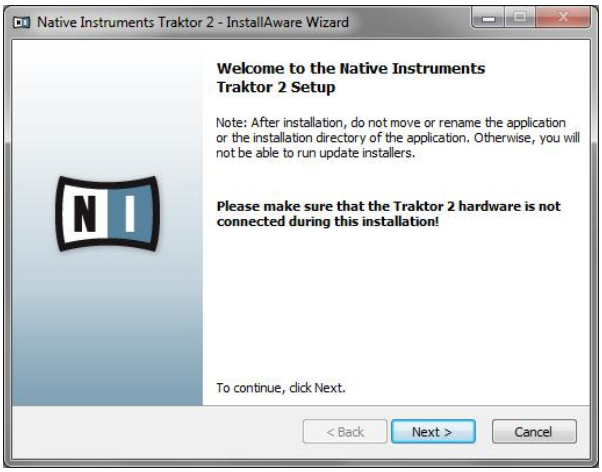
Windows XP (latest Service Pack, 32 Bit),
Windows Vista/Windows 7 (latest Service Pack, 32/64 Bit),
Intel Pentium 4 2.4 GHz or Intel Core Duo or AMD Athlon 64, 2 GB RAM
Mac OS X 10.6 (latest update) or 10.7, Intel Core Duo, 2 GB RAM
500 MB free disk space required (minimum), DVD drive

2.2.1. Windows installation

Execute the Traktor 2 installation file. Installation will start with the verification of the setup package.

InstallAware Wizard
The InstallAware Wizard is verifying the contents of this setup package. This may take a moment.
Cancel

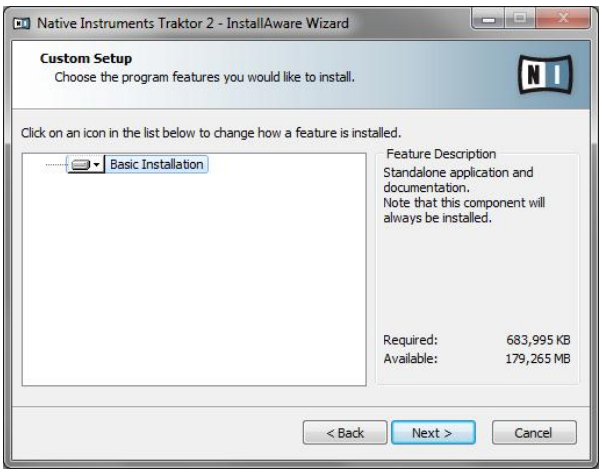
Afterwards, a welcome window will appear as seen below:


Native Instruments Traktor 2 - InstallAware Wizard
Welcome to the Native Instruments Traktor 2 Setup
Note: After installation, do not move or rename the application or the installation directory of the application. Otherwise, you will not be able to run update installers.
Please make sure that the Traktor 2 hardware is not connected during this installation!
To continue, click Next.
< Back
Next >
Cancel

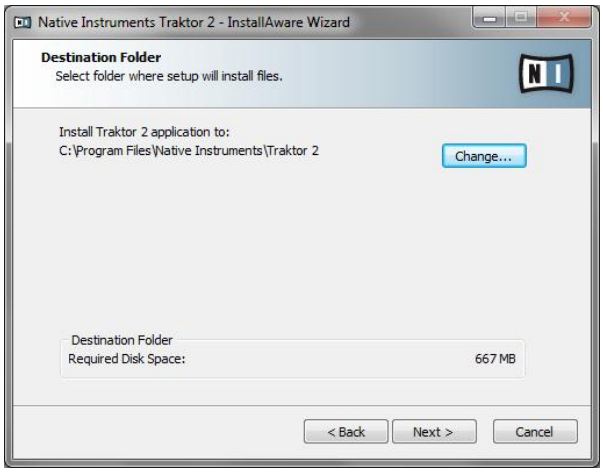
Select "Next" to start the installation. Following the license agreement will show up.

Native Instruments Traktor 2 - InstallAware Wizard
License Agreement
Please carefully read the following license agreement.
End User License Agreement of Native Instruments GmbH - December 2011
I. GENERAL
The following information represents the contractual conditions for the use of software and hardware manufactured by NATIVE INSTRUMENTS GmbH (hereinafter „Native Instruments") by you, the final user (hereinafter „Licensee"). By installing and by registering the software on your computer, you declare yourself in agreement with these conditions, so please read the following text carefully.
I accept the terms of the license agreement
english
< Back
Next >
Cancel

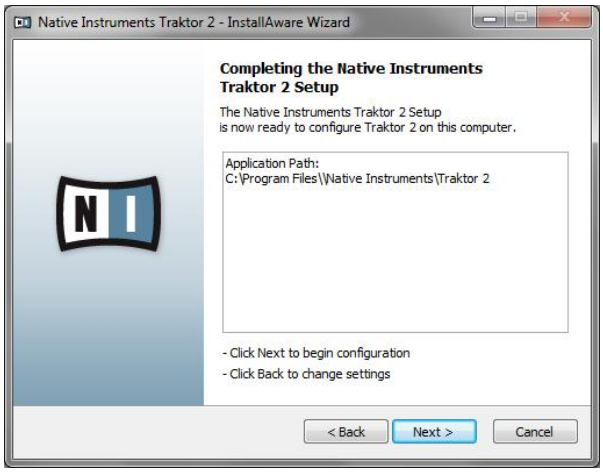
Read the Licence agreement carefully, select the accept box and press "Next".


Native Instruments Traktor 2 - InstallAware Wizard
Custom Setup
Choose the program features you would like to install.
Click on an icon in the list below to change how a feature is installed.
Basic Installation
Feature Description
Standalone application and documentation.
Note that this component will always be installed.
Required: 683,995 KB
Available: 179,265 MB
< Back
Next >
Cancel

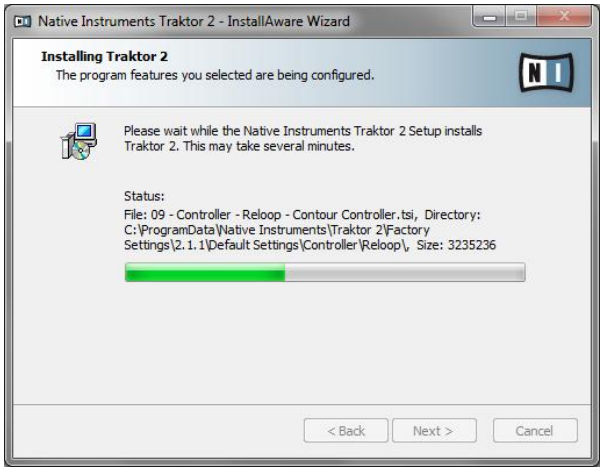
At this point you can select which features you would like to install; we recommend you start with the default "Basic Installation". Press "Next".



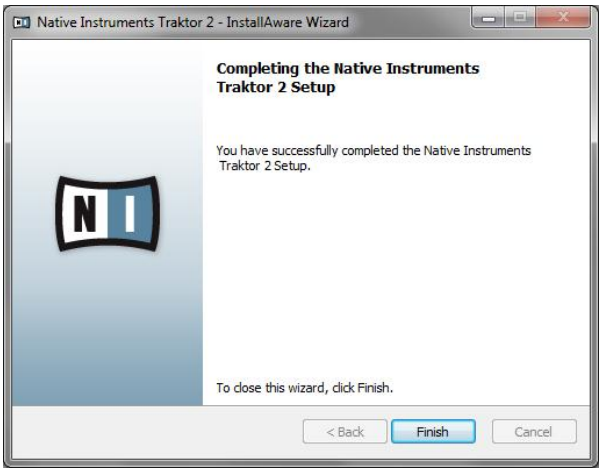
Select the folder where setup will install files and click “Next”.


Native Instruments Traktor 2 - InstallAware Wizard
Completing the Native Instruments Traktor 2 Setup
The Native Instruments Traktor 2 Setup is now ready to configure Traktor 2 on this computer.
Application Path:
C:\Program Files\Native Instruments\Traktor 2
- Click Next to begin configuration
- Click Back to change settings
< Back
Next >
Cancel

Check that everything is correct and select “Next”


Native Instruments Traktor 2 - InstallAware Wizard
Installing Traktor 2
The program features you selected are being configured.
Please wait while the Native Instruments Traktor 2 Setup installs Traktor 2. This may take several minutes.
Status:
File: 09 - Controller - Reloop - Contour Controller.tsi, Directory: C:\ProgramData\Native Instruments\Traktor 2\Factory Settings\2.1.1\Default Settings\Controller\Reloop\, Size: 3235236
< Back
Next >
Cancel

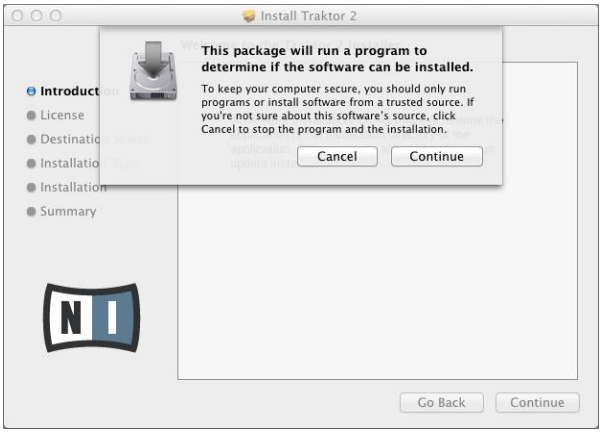
Wait until the following window appears:


Native Instruments Traktor 2 - InstallAware Wizard
Completing the Native Instruments Traktor 2 Setup
You have successfully completed the Native Instruments Traktor 2 Setup.
To close this wizard, click Finish.
< Back
Finish
Cancel

Traktor 2 will be successfully installed. Click “Finish” to exit from the Installation Wizard.

2.2.2. MAC Installation

Execute the Traktor 2 installation file. Installation will start with the verification of the setup package.

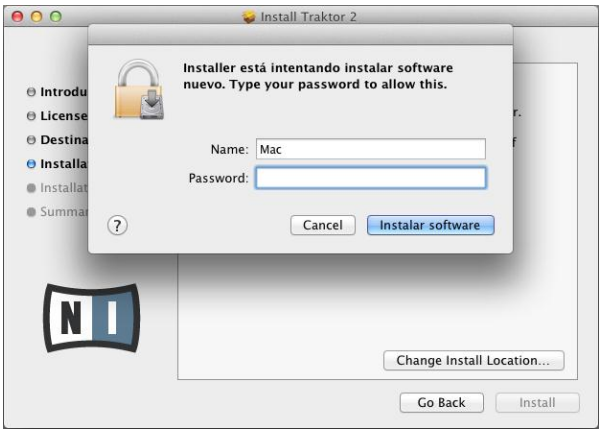

Install Traktor 2
This package will run a program to determine if the software can be installed.
To keep your computer secure, you should only run programs or install software from a trusted source. If you're not sure about this software's source, click Cancel to stop the program and the installation.
Cancel
Continue
Introduction
License
Installation
Summary
Go Back
Continue

Select “Continue” to start installation. Following the license agreement will show up.

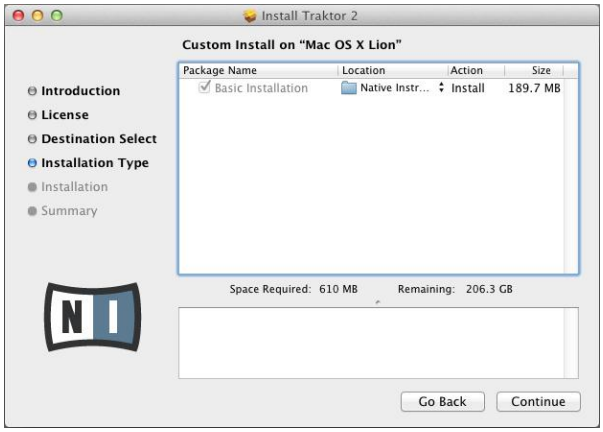
Read the License Agreement carefully and select “Continue” and the license agreement confirmation window will appear.

Install Traktor 2
To continue installing the software you must agree to the terms of the software license agreement.
Click Agree to continue or click Disagree to cancel the installation and quit the Installer.
Read License
Disagree
Agree
Summary
Print...
Save...
Go Back
Continue

Select “Agree” and continue with installation wizard.



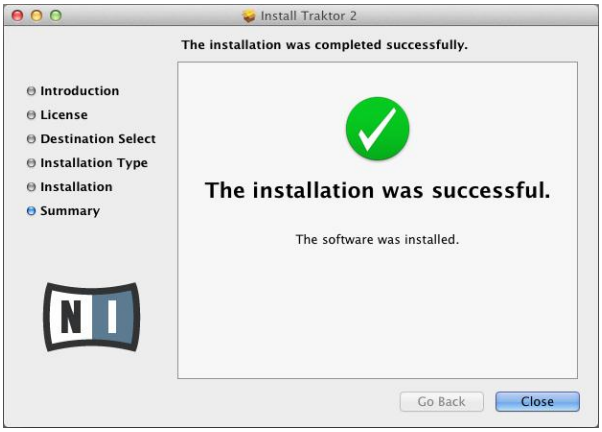
Type you password and select “Install Software”.



Following will appear a window showing the Installation Type information. Press “Continue”.

Wait until the following window appears:

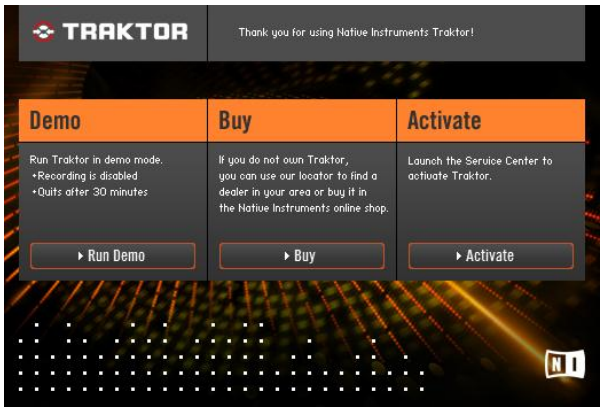
Select the folder where setup will install files and click “Install”.



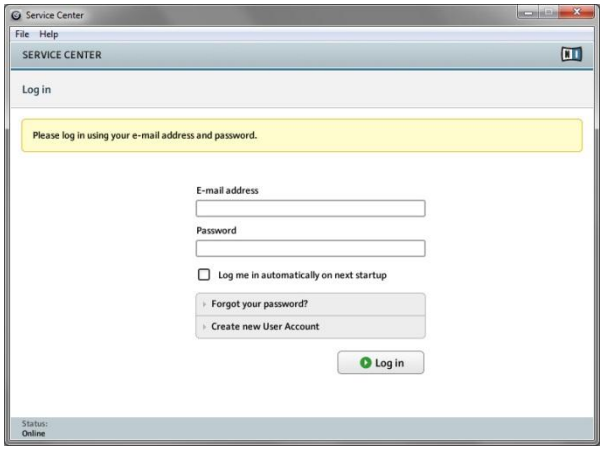
Traktor 2 will be successfully installed. Click “Close” to exit from the Installation Wizard.

2.2.3. Traktor 2 LE registration

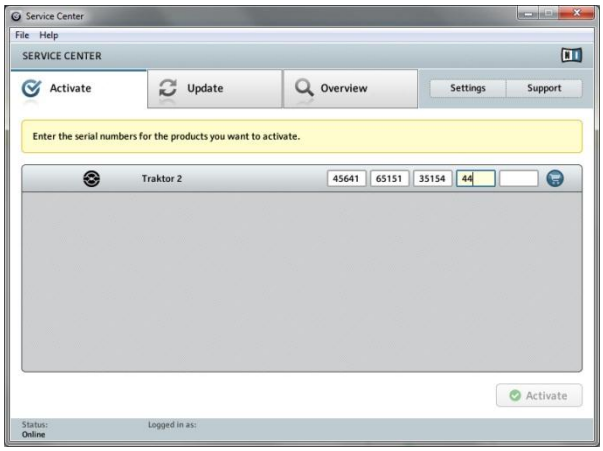
It is compulsory to register Traktor before you start using it. The first time you start Traktor the following window will pop up. If it does not, you can open the Service Center.


TRAKTOR
Thank you for using Native Instruments Traktor!
Demo
Run Traktor in demo mode.
+Recording is disabled
+Quits after 30 minutes
Run Demo
Buy
If you do not own Traktor, you can use our locator to find a dealer in your area or buy it in the Native Instruments online shop.
Buy
Activate
Launch the Service Center to activate Traktor.
Activate

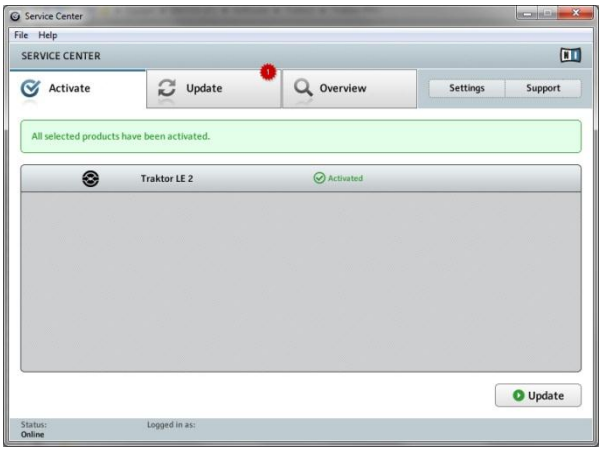
Select “Activate” to start the Service Center.
The online activation process is explained in this manual. People who do not have Internet connection will find more information about off-line activation on Help -> Open Quick Start Guide … in the Service Center.



Type your e-mail and Password if you already own a user account. Otherwise you must create a new User Account. Afterwards, log in and you will see a window with a list of the products that you should register.



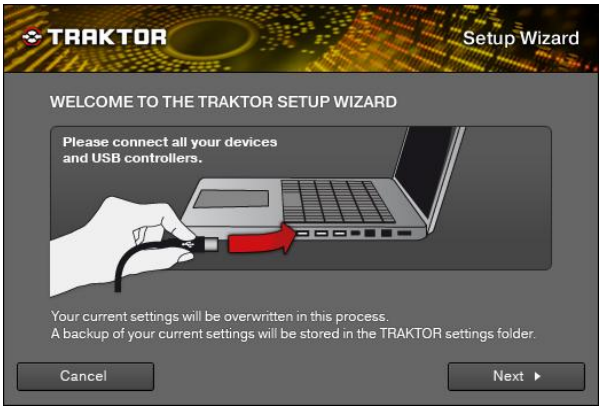
Type the serial number that you will find on the Traktor 2 LE CD provided with the controller and click “Activate”.



This window shows that you have successfully activated your Traktor LE 2.
The Service Center can be closed.

2.2.4. Traktor 2 Setup Wizard

When using Traktor 2 LE for the first time the “Setup Wizard” should start. If this is not the case or you already had Traktor 2 PRO installed please click on “Help” and select “Start Setup Wizard” and the Welcome window will pop up.


TRAKTOR
Setup Wizard
WELCOME TO THE TRAKTOR SETUP WIZARD
Please connect all your devices and USB controllers.
Your current settings will be overwritten in this process.
A backup of your current settings will be stored in the TRAKTOR settings folder.
Cancel
Next

Connect Tempus to your computer and click “Next”.

Answer the first question “Are you using an external controller?” with “Yes”. Then click on “Next”.

Choose “Akiyama” as manufacturer and “Tempus LE” or “Tempus” on model depending on if you are using Traktor 2 LE or PRO. Again confirm this selection with “Next” to jump to the next step.

TRAKTOR
Setup Wizard
MIXER SETUP
TRAKTOR offers 2 options of how to handle mixing of your audio sources. You can use the internal software mixer or connect TRAKTOR to your external mixer device.
Are you using an external mixer?
Yes
Yes
No
Cancel
Back
Next

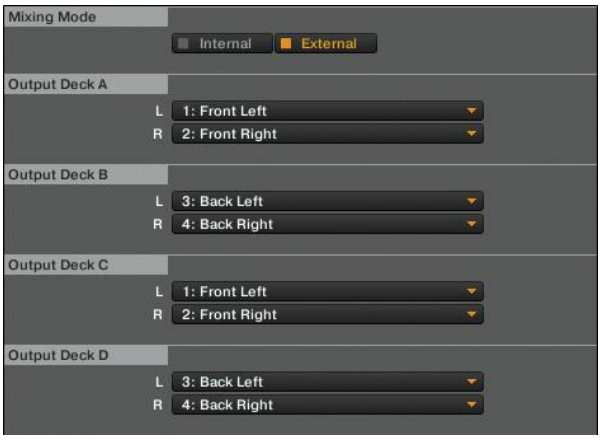
We recommend selecting the external mixer option if you plan to use two decks on Traktor 2 PRO or you are using Traktor 2 LE.
Select internal mixer if you need to control 4 decks.
NOTE: You must configure the controller accordingly (point 1.4-11).
After clicking “Next” you will go to next step. In Traktor 2 LE the next step is a summary of the setup while in Traktor 2 PRO you will see the following window.

TRAKTOR
Setup Wizard
DECK LAYOUT SELECTION
This step allows you to select the number and flavor of decks which match your use case best.
Select your setup:
2 Track Decks + 2 Sample Decks
Cancel
Back
Next

Here, you have to select the desired deck layout.
NOTE: You must configure the controller accordingly (For more information go to the point 3.2 of this manual).
Click “Next” to go to the setup summary.

Check the setup and click “Finish” to exit from the Setup Wizard. If there is anything wrong on the setup you can come back to reconfigure it by clicking “Back”.
If you select external mixer and a four deck configuration, output deck C and D will not be routed anywhere. Therefore, you will have to configure it by hand as you can see in the picture:

The names of the outputs on MAC are different from the names on Windows. On MAC you must configure Outputs as follow:



The same outputs are assigned to 2 decks and consequently you won’t be able to mix them separately. We recommend using internal mixer for four decks configurations.
Read Traktor and TEMPUS Akiyama ASIO driver manuals for advanced configurations.
Traktor Scrach Cerified users will have to configure their NI Time Code compatible sound card after executing the Setup Wizard.

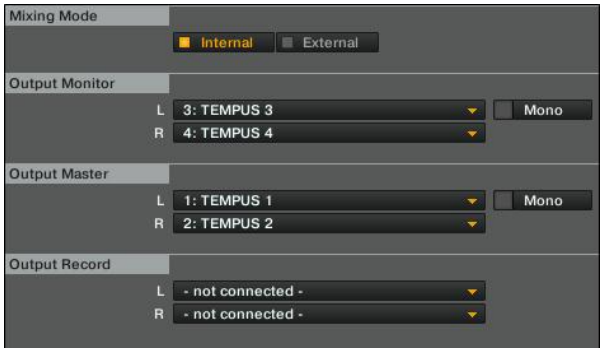
3. FUNCTIONS AND CONTROLS

3.1. Mixer Mode

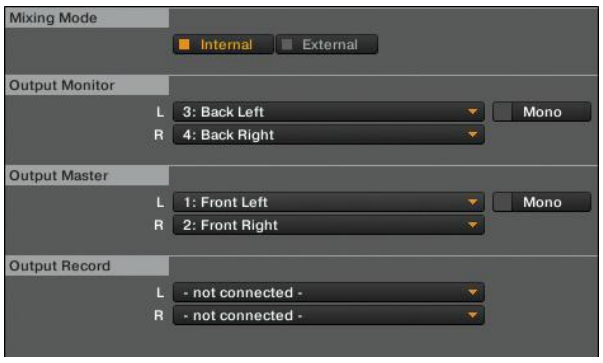
The mixer part of the controller can work as a MIDI controller as well as a stand-alone mixer. You can swap from one mode to the other using the switch you can find in the point 1.4-11 of this manual. In the Select Display MIDI CTRL indicates if the mixer section is in MIDI controller mode to control the mixer section in the DJ software. In the following points it will be explained how to configure inputs and outputs in both modes.

3.1.1. MIDI Control

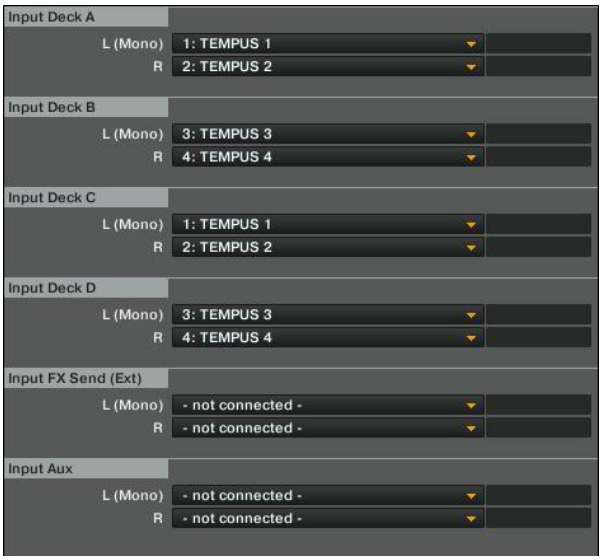
In this mode the USB 1&2 outputs are routed to the master output of the controller (1.4-5&6) and USB 3&4 outputs are routed to the headphones outputs of the controller (1.3-9).
Traktor have to be configured accordingly:



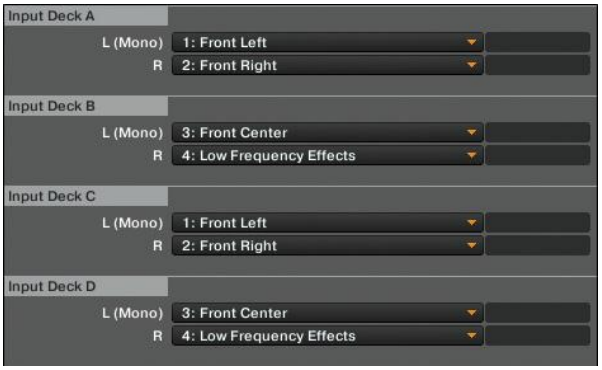
"TEMPUS" 1 and 2 must be assigned to Master and "TEMPUS" 3 and 4 to Monitor.
On MAC, Output Monitor is routed to "Back Left" / "Back Right" and Output Master is routed to "Front Left" / "Front Right".



The control "Channel Input Source Switch" (1.2-2) selects which input will be sent across the USB. The left control will select which input is routed to USB 1&2 inputs while the right one will select which input is routed to USB 3&4 inputs. It is possible to send any analog input of the controller to any USB stereo input. Under MIDI Control Mode You can switch the input selections among L/P1 (Line1/Phono1), L/P2 (Line2/Phono2) and AUX. If AUX is selected on the right channel (CH 2), microphone signal will be send to the sound card.
For instance if you select L/P2 in the left side and AUX in the right side and configure Traktor as it is in the following image, the signal coming from the input 2 of the controller will be available on the decks A and C if you select Live Input in those decks. Microphone input will be available on decks B and D when Live input is selected.


Input Deck A
L (Mono) 1: TEMPUS 1
R 2: TEMPUS 2
Input Deck B
L (Mono) 3: TEMPUS 3
R 4: TEMPUS 4
Input Deck C
L (Mono) 1: TEMPUS 1
R 2: TEMPUS 2
Input Deck D
L (Mono) 3: TEMPUS 3
R 4: TEMPUS 4
Input FX Send (Ext)
L (Mono) - not connected -
R - not connected -
Input Aux
L (Mono) - not connected -
R - not connected -

On MAC, the names of the USB inputs 1 and 2 are "Front Left" and "Front Right" and the names of the USB inputs 3 and 4 are "Front Center" and "Low Frequency Effect".

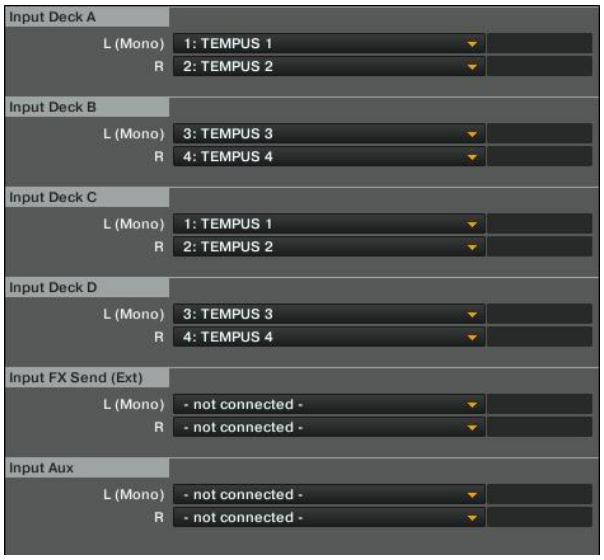

Input Deck A
L (Mono) 1: Front Left
R 2: Front Right
Input Deck B
L (Mono) 3: Front Center
R 4: Low Frequency Effects
Input Deck C
L (Mono) 1: Front Left
R 2: Front Right
Input Deck D
L (Mono) 3: Front Center
R 4: Low Frequency Effects

NOTE: USB outputs are the channels that go from the PC to the controller (They could be considered as controller inputs). USB inputs are the channels that go from the controller to the PC (They could be considered as controller outputs).

3.1.2. Stand-alone Mixer

In this mode the USB 1&2 inputs are the Master outputs of the controller or Input 1 and USB 3&4 inputs the microphone input or Input 2 depending on if DVS is selected or not.
On the other hand, USB outputs can be chosen as input signals to the mixer.
The control "Channel Input Source Switch" (1.2-2) selects the input source for each channel. You can switch among Line/Phono 1 (L/P1), Line/Phono 2 (L/P2), USB1 (from computer), USB2 (from computer), AUX and DVS (from computer).
The difference between USB and DVS (Digital Vinyl System Direct Mode) is the signals the device sends across the USB. If USB is selected MASTER and BOOTH are send to the computer while if DVS is selected L/P is send instead.
When you use time code vinyl to control DJ software you have to switch to the input channel corresponding to the physical input where the CD or turntable is connected to DVS mode.
NOTE: In order to use time code vinyl with TEMPUS, you will have to use DJ software compatible with any soundcard. You only can use time code with Traktor Scratch PRO if you use one of the compatible Native Instruments sound cards.
If you wish to apply some effects of your software to any input before mixing them you have to switch to the DVS mode as

well. In this case you need to select external mixer in the Setup Wizard. Make sure that inputs are configured as follow:


Input Deck A
L (Mono) 1: TEMPUS 1
R 2: TEMPUS 2
Input Deck B
L (Mono) 3: TEMPUS 3
R 4: TEMPUS 4
Input Deck C
L (Mono) 1: TEMPUS 1
R 2: TEMPUS 2
Input Deck D
L (Mono) 3: TEMPUS 3
R 4: TEMPUS 4
Input FX Send (Ext)
L (Mono) - not connected -
R - not connected -
Input Aux
L (Mono) - not connected -
R - not connected -

You can see on the previous point the equivalent names on MAC.
In this case inputs 1&2 are assigned to deck A and C and inputs 3&4 to decks B and D. You can assign any input to any deck.
Make sure to select Live input in the deck you have associated the inputs you want to apply effects.

NOTE: USB outputs are the channels that go from the PC to the controller (They could be considered as controller inputs). USB inputs are the channels that go from the controller to the PC (They could be considered as controller outputs).

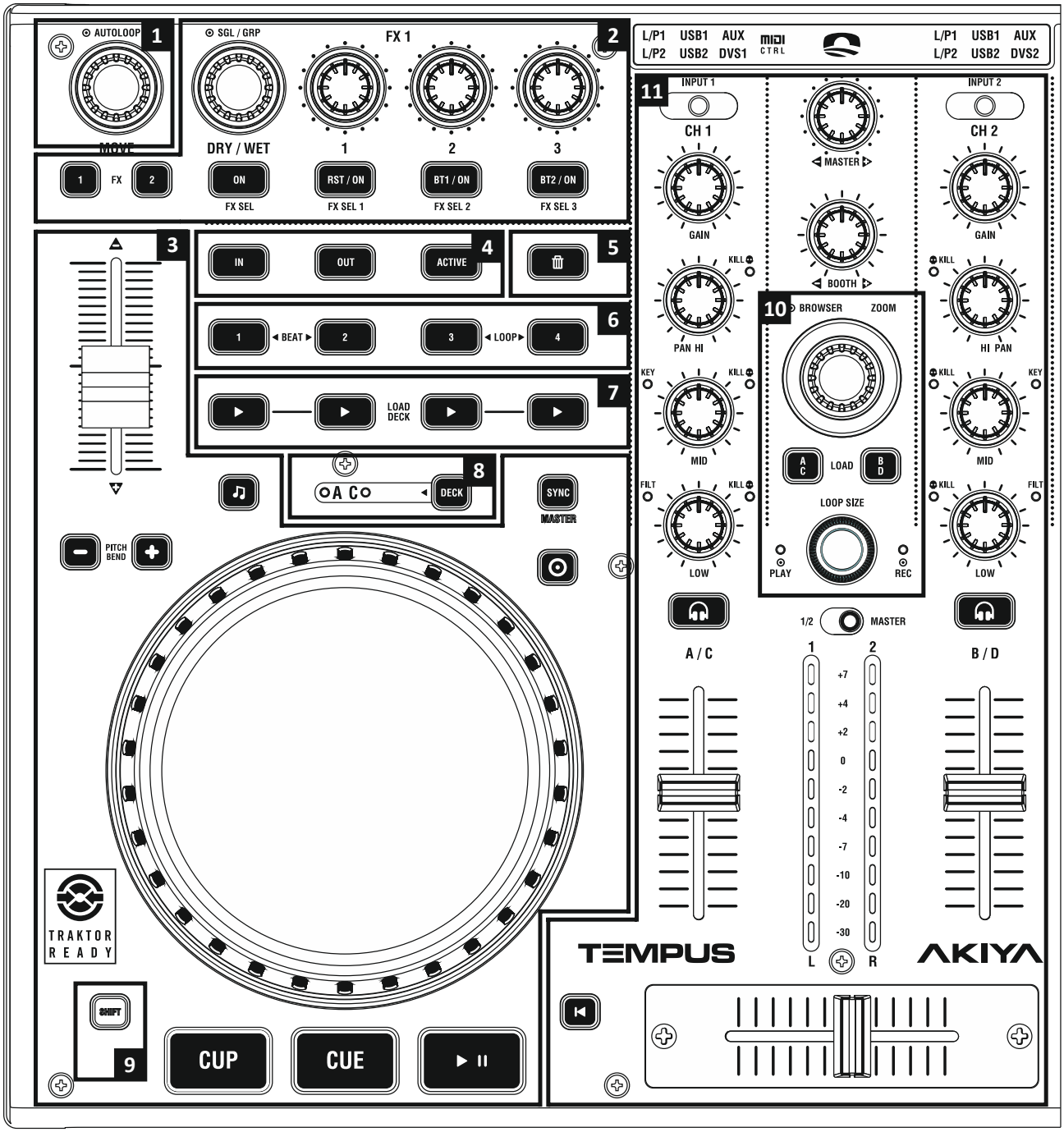
3.2. Track/Sample Deck Mode

In points 4.1-Channel and 4.3.1 it will be explained how the MIDI channels which messages are sent through can be changed.
Depending on the selected channels, decks C and D of the controller will control sample functions (channels 1 to 4) or Track deck functions (channels 5 to 8).
Traktor 2 LE mapping is compatible with the default mode in which MIDI messages are sent through channels 1 to 4.
For users using Traktor PRO, make sure that the Deck Layout Selection step is configured correctly.

TRAKTOR
Setup Wizard
DECK LAYOUT SELECTION
This step allows you to select the number and flavor of decks which match your use case best.
Select your setup:
2 Track Decks + 2 Sample Decks
2 Track Decks + 2 Sample Decks
2 Track Decks
4 Track Decks
2 Track Decks + 2 Live Inputs
Cancel
Back
Next

When Channels from 1 to 4 are selected (default mode) you must select the following layouts:
- 2 Track Decks + 2 Sample Decks
When Channels from 5 to 8 are selected you must select one of the following layouts:
- 2 Track Decks + 2 Live Inputs.
- 4 Track Decks.

3.3. Traktor 2 LE



1. AUTOLOOP

- AUTOLOOP: Turn the control to select loop size. Press the control to set the loop.

2. EFFECTS

This section provides control over Traktor effects.
- DRY/WET: Determines the amount of processed signal (by the effect) versus original signal that will be played.
Shift (FX Sel.): Turn the control to select one effect of the list.
- ON: Press the button to select one effect of the list.
- 1: Adjusts the level of effect.
- RST/ON: Effect On/Off.
- 2: No function.
- BT1/ON: No function.
- 3: Turn the control to adjust the FILTER parameter.
- BT2/ON: FILTER parameter On/Off.
- FX1 & FX2: No function.

3. TRANSPORT/JOG WHEEL

- PITCH FADER: Modify deck tempo.
- PITCHBEND: Adjusts the tempo of the deck while these buttons are pressed. When released, the tempo returns to original value.
- KEY (♫): Push to enable KEY LOCK function.

- SYNC: Use the SYNC button to match the BPMs of different decks.
Shift (Set Master): Press to set to master the deck in which it has been pressed.
- SCRATCH ( ): Scratch mode On/Off. If Scratch mode is off you can use the jog to modify the pitch bend.
Shift (Jog wheel lighting): Change the lighting mode of the jog wheel.
- JOG WHEEL: Turn the jog wheel to scratch or modify the pitch bend.
Shift (Seek): Scroll fast through of the track.
- PLAY/PAUSE: Start or stop playback.
Shift (Skip): Moves the play position to the beginning of the loaded track.
- CUE: Skips back to the current cue point.
- CUP: Skips back to the current cue point and keeps the track playing.
Shift (Tap): Set the tempo based on how fast or slow you tap on the button. The tempo will be adjusted after the fourth tap.

4. LOOP

- IN: Sets the first point of one loop or the Cue point.
- OUT: Sets the final point of one loop and activates the loop.
- ACTIVE: Loop Active function On/Off. This function is automatically activated every time that a loop has been set.

5. DECK DUPLICATE

-DELETE: This button lets you duplicate decks. In this case, if you have any Hotcue or one loop is running, it will be also duplicated.

6. AUTOLOOP 1/16 – 1/2

- BUTTON 1-4: Set Autoloops. Available sizes in order are 1/2, 1/4, 1/8, y 1/16 de beat.

7. AUTOLOOP 1 - 16

- PLAY BUTTONS: Set Autoloops. Available sizes in order are 1, 4, 8 y 16 beats.

8. DECKS

- DECK: No function.

9. SHIFT.

The Shift button provides a second MIDI layer for the controller.
This function can be configured as Toggle or Hold mode. The button is lit when Shift function is active.

10. BROWSER

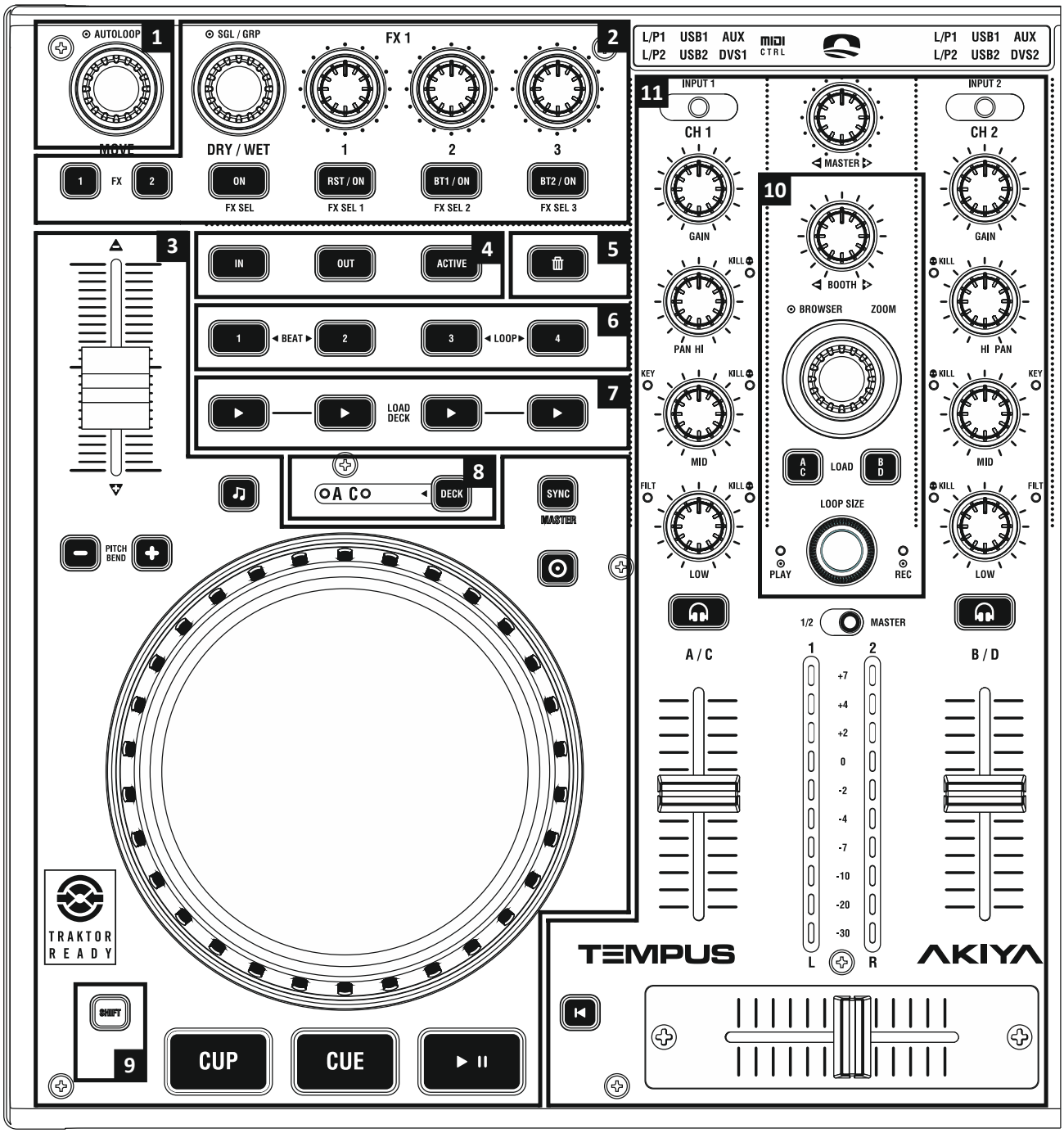
- BROWSER: Turn the encoder to browse through your list of songs/tracks. Press to enlarge the browser window.
Shift (Fast): Turn the encoder to browse through your list of songs/tracks more quickly.
- LOAD: Load the selected track on the deck.
Shift (Load Next): Load next song of the track list into the Deck.
- LOOP SIZE: Turn the small encoder to browse through your list of folders. Press to expand or collapse the folders.

11. MIXER.

These controls will be operational when the MIXER STATUS switch (1.4 Rear Panel) is in MIDI position. Otherwise, go to 1.2 Mixer Panel section to get more info about stand-alone mixer mode.

- MASTER: Adjust the Master output level.
- BOOTH: No function.
- GAIN: Turn to adjust channel gain.
- HIGH: Turn to control the high frequencies and mute (Kill function) them when pressed. Led will light when Kill is on.
- MID: Turn to control the mid frequencies and mute (Kill function) them when pressed. Led will light when Kill is on.
- LOW: Turn to control the low frequencies and mute (Kill function) them when pressed. Led will light when Kill is on.
Shift (Filter): Turn the control to adjust the FILTER parameter. Press the control to On/Off this function.
- MONITOR CUE ( ): Pre-listen the respective channel through the headphones output.
- 1/2 – MASTER: This switch allows you to display the Master Output level if it is in the Master position, or channel output level if it is in the 1/2 position.
- CHANNEL FADER: These faders let you modify the channel volume.
- CROSSFADER: This horizontal fader lets you select the channel that you will listen through the Master output. If crossfader is placed in the central part the two channels will be listened simultaneously.
- AUTO CROSSDAFER: These buttons let you shift the Traktor crossfader automatically.
Shift (Snap ( ) & Quant ( )): Snap and Quantize mode On/Off.

3.4. Traktor 2 PRO



TRACK DECK

1. AUTOLOOP

- AUTOLOOP: Turn the control to select loop size. Press the control to set the loop.
Shift (Move): Turn the control to move the loop through the track. The shift depends on the loop size. This function only works when a loop is playing.

2. EFFECTS

There is SINGLE and GROUP modes.

In SINGLE (SGL) mode we modify different parameters of a given effect. GROUP mode (GRP) you can use three effects simultaneously with a one-knob control.
- DRY/WET (SGL & GRP): This parameter controls the mix between the original direct signal (Dry; full left position) and the processed effect signal (Wet; full right position).
Shift (SGL): Turn the control to select the effect desired.
- SGL / GRP: Switch between Single and Group mode.
- ON (SGL): FX units On/Off.
- BUTTONS 1, 2 & 3 (SGL): You can change the 1st, 2nd and 3rd parameter of the selected effect.
- BUTTONS 1, 2 & 3 (GRP): You can change the amount of the 1st, 2nd and 3rd effect of the unit.

- **RST**/ON (SGL): Use this button to reset the effect.
- RST/**ON** (GRP): 1st effect of the unit On/Off.
Shift (GRP): You can select next effect of the list.
- **BT1**/ON (SGL): Parameter On/Off. This parameter depends on the selected effect.
- BT1/**ON** (GRP): 2nd effect of the unit On/Off.
Shift (GRP): You can select next effect of the list.
- **BT2**/ON (SGL): Parameter On/Off. This parameter depends on the selected effect.
- BT2/**ON** (GRP): 3rd effect of the unit On/Off.
Shift (GRP): You can select next effect of the list.
- FX1 y FX2: With these buttons, you can enable the FX Unit in each deck.
Shift (Zoom in y Zoom out): You can zoom in and out the waveform using these buttons.

3. TRANSPORT/JOG WHEEL

- PITCH FADER: Moving the Pitch Fader up or down will slow down or speed up the tempo of the track.
- PITCHBEND: These buttons let you slow down or speed up the tempo of the track while they are pressed.
Shift (Pitch Range): Choose the maximum and minimum range of the Pitch Fader.
- KEY ( ): KEY LOCK function On/Off.
- SYNC: Synchronizes the BPM value with the Master BPM.
Shift (Set Master): Select the Master deck.
- SCRATCH ( ): Scratch mode On/Off. If the mode is Off the jog wheel will only be able to do bend.
Shift (Jog wheel lighting): Change the lighting mode of the jog wheel.
- JOG WHEEL: Move the wheel to do bend. If the Scratch mode is On, you can do scratch when you touch the central part of the wheel.
Shift (Seek): Move through the track quickly.
- PLAY/PAUSE: Start or stop the playback.
Shift (Skip): Skip to the beginning of the track.
- CUE: Move the playback to the last established Cue point.
- CUP: Move the playback to the last established Cue point. In this case the playback continues.
Shift (Tap): Set the tempo based on how fast or slow you tap on the button. The tempo will be adjusted after the fourth tap.

4. LOOP

- IN: Sets the first point of one loop or the Cue point.
- OUT: Sets the final point of one loop and activates the loop.
- ACTIVE: Loop Active function On/Off. This function is automatically activated every time that a loop has been set.

5. DELETE

- DELETE: If you want to eliminate any Hotcue or unload any slot you must to press the corresponding button while the Delete button is pressed.

6. HOTCUE

- BUTTON 1-4: These buttons provide direct access to 4 user-definable Cue/Loop In Points per track.
Shift BUTTON 1 - 2 (Beat): Forward or backward the playback from beat to beat.
Shift BUTTON 3 - 4 (Loop): Forward or backward the playback according to the size indicated in Autoloops bar.

7. PLAY SAMPLE (MODE 1)

- PLAY BUTTONS: Each button controls one slot of the Sample deck. Pressing any of these buttons we start the playing of the corresponding slot.
If the slot is empty, load the sample selected from the track list.
Shift (Load from Deck): This function makes possible to copy one loop/sample from Track Deck to each slot of the Sample Deck. If there is already one sample loaded in the slot, this button let you mute the corresponding slot.
Note: These functions will be available if the controller is configured in Mode 1.

7. HOTCUE (MODE 2)

PLAY BUTTONS: These buttons provide direct access to 4 user-definable Cue/Loop In Points per track. In this case these belong to the 5th, 6th, 7th and 8th Hotcue.
Shift (Loop Set): These buttons let you to set loops of established size. Available sizes in order are 1, 4, 8 and 16 beats.
Note: These functions will be available if the controller is configured in Mode 2.

8. DECKS

DECK: If the controller is set up in Mode 1 then you can switch between Track Deck (A/B) and Sample Deck (C/D).
If the controller is set up in Mode 2 you will only work with Track Decks so you can switch between decks A/C and decks B/D.

9. SHIFT

The Shift button provides a second MIDI layer for the controller.
Shift function has two operating modes:
Hold: Shift function is enabled while the button is pressed.
Toggle: Shift function is enabled when you press the Shift button and disable when you press another time.
When the function is enabled the button is lit.

10. BROWSER/LOOP RECORDER

- BROWSER: Turn the encoder to browse through your track list. Press to enlarge the browser window.
Shift (Tree): Turn the encoder to browse through your folder list. Press to expand or collapse the folders.
- LOAD A/C: Load one track on the deck A or C.
Shift (Del Loop Rec.): Delete the loop of the Loop Recorder.
- LOAD B/D: Load one track on the deck B o D.
Shift (Undo/Redo Loop Rec.): Undo/Redo of the Loop Recorder
- BOOTH (D/W Loop Rec.): This parameter controls the mix between the original direct signal (Dry; full left position) and the processed Loop Recorder signal (Wet; full right position).
- LOOP SIZE: Turn the encoder to change the size loop. If you press it starts to record (Rec function).
The REC and PLAY leds are lit while Rec function is enabled.
Shift (Play Loop Rec.): If you press the playback starts (Play function). The PLAY led is lit while Play function is enabled.

11. MIXER

These controls will be operational when the MIXER STATUS switch (1.4 Rear Panel) is in MIDI position. Otherwise, go to 1.2 Mixer Panel section to get more info about stand-alone mixer mode.

- MASTER: Adjust the Master output level.
- GAIN: Adjust the channel output level
- HIGH: Turn to control the high frequencies and mute (Kill function) them when pressed. Led will light when kill is on.
Shift (Pan): Adjust PAN function.
- MID: Turn to control the mid frequencies and mute (Kill function) them when pressed. Led will light when kill is on.
Shift (Key): Adjust KEY function. Press the control to On/Off KEY LOCK function.
- LOW: Turn to control the low frequencies and mute (Kill function) them when pressed. Led will light when kill is on.

Shift (Filter): Turn the control to adjust the FILTER parameter. Press the control to On/Off this function.
- MONITOR CUE ( ): Pre-listen the respective channel through the headphones output.
- 1/2 – MASTER: This switch lets you display the Master Output level if it is in the Master position, or channel output level if it is in the 1/2 position.
- CHANNEL FADER: These faders let you modify the channel volume.
- CROSSFADER: This horizontal fader let you select the channel that you will listen through the Master output. If crossfader is placed in the central part the two channels will be listened simultaneously.
- AUTO CROSSDAFER: These buttons let you move the Traktor crossfader automatically.
Shift (Snap ( ) & Quant ( )): Snap and Quantize mode On/Off.

SAMPLE DECK.

These functions will be available if the controller is configured in Mode 2.

1. VOLUME/FILTER

- AUTOLOOP: Turn the control to adjust the slot/s volume. Press the control to mute/unmute the slot/s.
Shift (Filter): Turn the control to adjust the slot/s FILTER parameter. Press the control to On/Off this function.

2. EFFECTS

- FX1 y FX2: With these buttons, you can enable the FX Unit in each deck.
Shift FX1 (FX Slot): Enable the FX Unit of single slot.
Shift FX2 (Play Mode): Change the play mode of each slot. Play Mode are: One Shoot or Loop Mode.

3. TEMPO

- PITCHBEND: These buttons let you slow down or speed up the tempo of the slot/s while they are pressed.
- KEY ( ): Press to enable the KEY LOCK function in each slot.
- SYNC: Synchronizes the slot/s BPM value with the Master BPM.

4. SAMPLE SIZE

- IN: Sample size is doubled.
Shift (Copy from Loop Rec.): Set the Loop Recorder loop on slot 1.
- OUT: Sample size is halved.
Shift (Copy from Loop Rec.): Set the Loop Recorder loop on slot 2.
- ACTIVE: Set sample size to original value.
Shift (Copy from Loop Rec.): Set the Loop Recorder loop on slot 3.

5. UNLOAD

DELETE: To unload the sample firstly you must select the sample that you want to unload and secondly you must press the unload button.
Shift (Copy from Loop Rec.): Set the Loop Recorder loop on slot 4.

6. SELECT SLOT

This buttons group let you select one or all the Sample Deck slots.
If the slot is selected, the corresponding Led is lit and you can modify/execute functions as Volume, Filter, Pitchbend, Play/Pause, Key Lock, Sync o Unload
To select one slot you must press the appropriate button. Button 1 corresponds to slot 1, button 2 to slot 2, and so on.
To select all slots you must press the button of the active slot (the lit button). When all slots are active, the four buttons are lit.
Shift (Load from Deck): This function lets you copy one loop/sample from Track Deck to any slot of the Sample Deck.

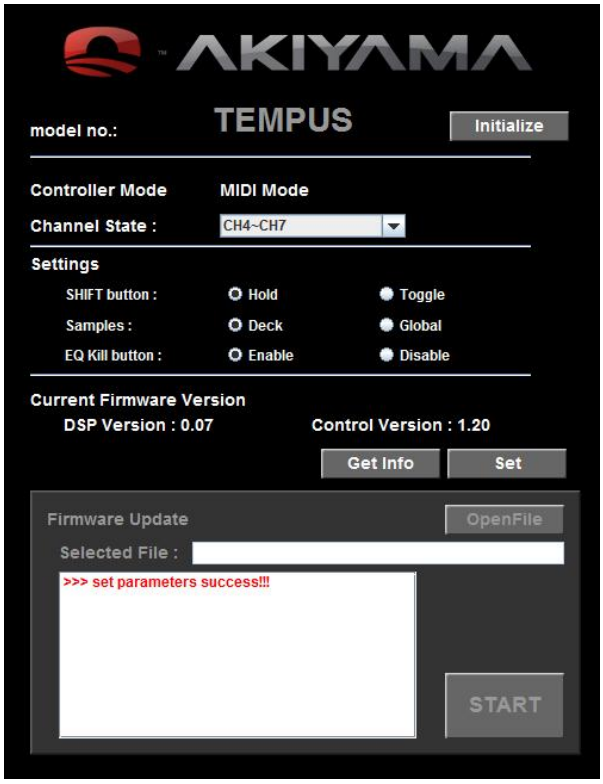
7. PLAY SAMPLE

- PLAY BUTTONS: Each button controls one slot of the Sample deck. Pressing any of these buttons we start the playing of the corresponding slot.
If the slot is empty, load the sample selected from the track list.
Shift (Slot Retrigger): This function lets you skip at the beginning of the sample.

4. SETUP AND FIRMWARE UPDATE

There are two approaches to set the device. One is setting through the Settings and Update software. The other is directly control by the hardware.

4.1. Setting Software



Initialize
Initialize the program to get model no. of the device.

Channel
Set the controller's channels. The default channels are Channel 1 to Channel 4.

Settings
Following functions you can set this device by your requirements.

- **SHIFT button:** Press or hold the SHIFT button you can Access the secondary functions of other control elements. There are two modes for SHIFT button. The HOLD mode you have to press the button until you finished the secondary functions. Under the TOGGLE mode Press the button to active the secondary functions. Press the SHIFT button again to de-active the secondary functions.

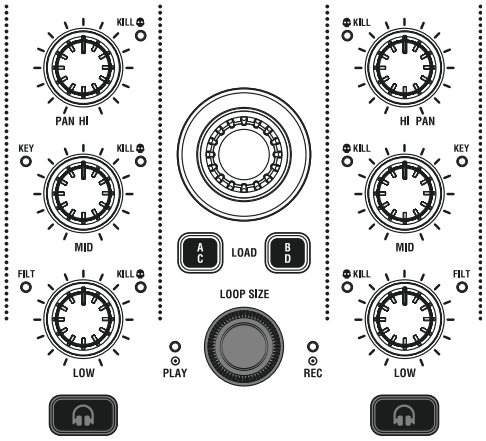
- **Samples:** Depend on different DJ software the samples could be on "Global" section or "Deck" section. Global section: The left deck and right deck sample buttons are in the Global Section like the crossfader. The channels of samples are not affected by the "DECK SWITCH button" and always keep the same channel. Deck section: When you change deck by "DECK SWITCH" button the channel of Samples will be changed as normal Deck control elements.

- **EQ KILL button:** The EQ knobs have Full Kill Function by press the EQ knobs. You can switch On/Off the function by your DJ style.

Current Firmware Version

Before you update firmware for this device you had better recheck the firmware version.
To indicate the current firmware version of this device, you can follow the below statement:
- Get Info: You can get the current setting info of this device by click the "Get Info" button.
- Set: After you change the settings as you want. Click the "Set" button to finish the settings to this device.

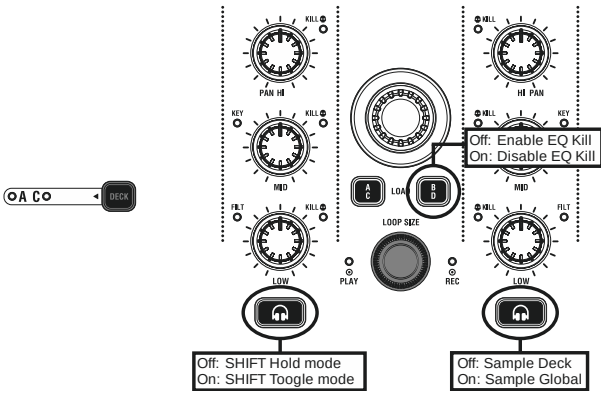
4.2. Firmware Update



- Before you turn on the device please HOLD the "Channel 1 Monitor Cue", "Channel 2 Monitor Cue" and "Center Encoder" at the same time, and then turn the power on. You can find the LED of Left deck "Hot Cue 1" is lit. Right now the device is ready for firmware update.
- Execute the device Setting and Firmware Update program.
NOTE: If you have not turned on the device holding the buttons specified in the first step, the Firmware Update part will not be available.
- Click the "Open File" button to select the firmware from your computer.
- Click "Start" to begin the firmware update process. During the update process you can find the Hot Cue buttons will lead in sequence from left deck to right deck.
- After successfully update the firmware the device will automatically restart.

4.3. Changing Settings through the Controller

You can get the current settings info by hold the "Left DECK SWITCH" button for 3 seconds and press the "Center Encoder"



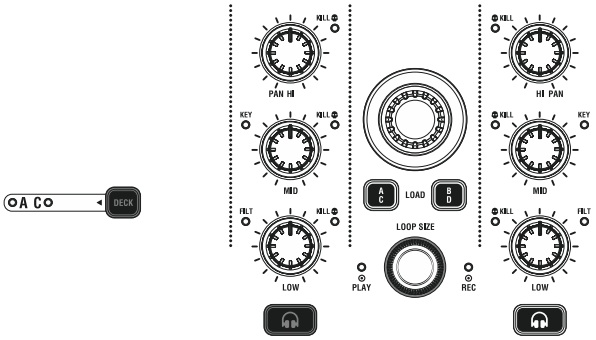
Following functions you can set the device by your requirements.

4.3.1. Channel settings

You can change channel by holding the left deck “DECK SWITCH” button for 3 seconds and press the Left Deck Hot Cue button 1 to 4. Default channel is Channel 1~4.
Hot Cue 1 for Channel 1~4
Hot Cue 2 for Channel 5~8
Hot Cue 3 for Channel 9~12
Hot Cue 4 for Channel 13~16

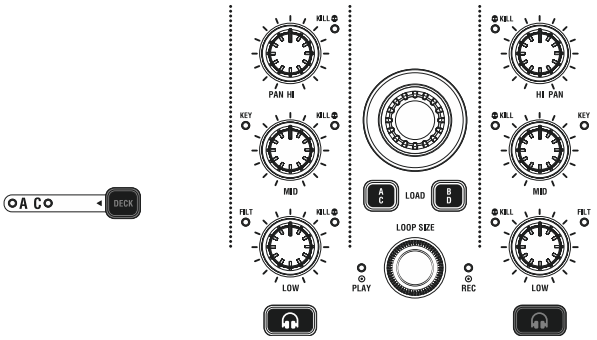
4.3.2. SHIFT button setting

You can change the SHIFT operation mode by holding the left deck “DECK SWITCH” button for 3 seconds and press the “Channel 1 Monitor Cue” button to switch the mode. Default setting is “HOLD” mode.



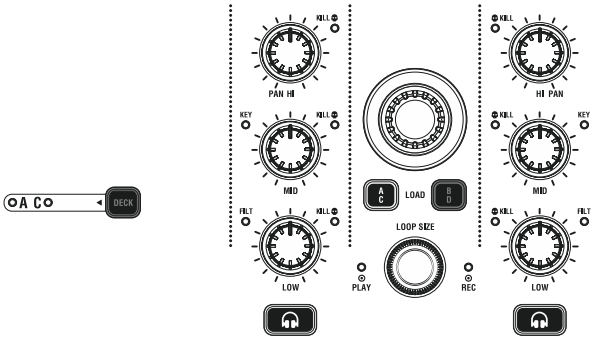
4.3.3. Sample buttons setting

You can change the Samples setting by holding the left deck “DECK SWITCH” button for 3 seconds and press the “Channel 2 monitor Cue” button to switch the mode. Default setting is “Samples Deck”.



4.3.4. EQ Kill button setting

You can switch On/Off the EQ Kill function by holding the left deck “DECK SWITCH” button for 3 seconds and press the “Load B/D” button to switch the mode. Default setting is “Enable” the EQ Kill function.



5. APENDIX

5.1. MIDI Specification

A DJ Software have the “mapping” function that assigns MIDI messages to the different functions of the DJ Software.
We also have to match the DJ Software functions with the controls of the external device (the controller). We do so by assigning the DJ Software function and the control the same MIDI note or message.
Each of TEMPUS controls generates various MIDI messages you can see at the table TEMPUS MIDI MAP. We can send the MIDI messages through channels 0 to 15, this is a MIDI standard. We can see four different parts on a MIDI message:
- The MIDI code (MIDI CODE) lets us know what type of message is sent.
- The MIDI code (MIDI CODE) + Channel lets us know what type of message is sent again and the channel which it is sent through.
- The FUNCTION CODE gives us the note or control value.
- The action let us know the value that the control attains when is manipulated.
At the table those parts are separated by commas in the MIDI COMMAND columns.
DJ Software’s use two types of MIDI codes:
- “Control Note” (switch): the control is a switch (you see a button) or a LED and will look like NOTE C2. Each note has a number that at the table is expressed in Hexadecimal (HEX). Further on at this manual we will explain how notes and numbers correspond to each other and how to change from hexadecimal to decimal. In this case MIDI CODE is 9 and FUNCTION CODE is the note of the control.
- “Control Change” (CC): the control will be a potentiometer or encoder and will have a label like Cc53. In this case MIDI CODE is B and FUNCTION CODE is a value between 0 and 127. We will associate a value to each control of the kind.
Upon the value of the action part of the MIDI message we will classify the controls as follows:
a- NOTE-KEY: are note type messages. Action value can be 127 (7FH) when we press or 0 when we release.
b- NOTE-LED: determines the LED that will light, are note type messages as the switches and the values are 127 for LED ON and 0 for LED OFF. In the LEDs case it is the DJ Software that sends the MIDI messages to the controller.
c- CC-ABSOLUTE (VR) - CC “Control Change” Absolute. These are potentiometer like controls. The action value is a number between 0 and 127 upon the potentiometer position.
d- CC-RELATIVE (ENCODER/WHEEL) - CC “Control Change” Relative. These are encoder like controls. As oppose to the potentiometer that encoder does not send a message to report its position but only report changes when turning to clockwise or anticlockwise. It is sent the value 63 (3FH) if it turns to the left and 65 (41H) if it turns to the right.
e- CC-LEVEL LED. The value sent in the action from 0 to 127 will tell how many LEDs have to be turned ON at the vu-meter.
There are DJ Software’s where it is not necessary to know note values or control values because the software “read” them automatically and by touching a control it assigns its note to a certain function selected by the user.
In other Software’s it is necessary to write by hand the values. Even in Software’s with auto learn function you must write/select the LEDs. Therefore, we recommend you try understanding the TEMPUS MIDI MAP table.
Note: the MIDI MAP is presented in hexadecimal base > NOTE or CC. To assign physical control to software functions you need to translate the MIDI MAP into decimal base.
Following, we explain how to find out the equivalence between Hexadecimal and Decimal:

	0H	1H	2H	3H	4H	5H	6H	7H	8H	9H	AH	BH	CH	DH	EH	FH
0H	0	16	32	48	64	80	96	112	128	144	160	176	192	208	224	240
1H	1	17	33	49	65	81	97	113	129	145	161	177	193	209	225	241
2H	2	18	34	50	66	82	98	114	130	146	162	178	194	210	226	242
3H	3	19	35	51	67	83	99	115	131	147	163	179	195	211	227	243
4H	4	20	36	52	68	84	100	116	132	148	164	180	196	212	228	244
5H	5	21	37	53	69	85	101	117	133	149	165	181	197	213	229	245
6H	6	22	38	54	70	86	102	118	134	150	166	182	198	214	230	246
7H	7	23	39	55	71	87	103	119	135	151	167	183	199	215	231	247
8H	8	24	40	56	72	88	104	120	136	152	168	184	200	216	232	248
9H	9	25	41	57	73	89	105	121	137	153	169	185	201	217	233	249
AH	10	26	42	58	74	90	106	122	138	154	170	186	202	218	234	250
BH	11	27	43	59	75	91	107	123	139	155	171	187	203	219	235	251
CH	12	28	44	60	76	92	108	124	140	156	172	188	204	220	236	252
DH	13	29	45	61	77	93	109	125	141	157	173	189	205	221	237	253
EH	14	30	46	62	78	94	110	126	142	158	174	190	206	222	238	254
FH	15	31	47	63	79	95	111	127	143	159	175	191	207	223	239	255

To translate a 2 digit Hexadecimal base number into a Decimal base we have to:
- find the column that has the digit that appears at the left.
- find the row that has the right digit.
- the convergence of row and column is the equivalent Decimal number.
Inversely to translate a Decimal base number into a Hexadecimal base we have to:
- find the number at the table. Its column is the first hexadecimal digit, the second hexadecimal digit is it row.
E.g. Play control MIDI address is 18. Find the Decimal equivalence at the Hexa-Dec table: Column 2 / Row 9 it is decimal number 24.
Some softwares require not only to know the decimal value but also the corresponding note (for control change the decimal number is enough). We can perform the Note-Decimal number equivalence using the following table:

Octave #	Note Numbers											
	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
-1	0	1	2	3	4	5	6	7	8	9	10	11
0	12	13	14	15	16	17	18	19	20	21	22	23
1	24	25	26	27	28	29	30	31	32	33	34	35
2	36	37	38	39	40	41	42	43	44	45	46	47
3	48	49	50	51	52	53	54	55	56	57	58	59
4	60	61	62	63	64	65	66	67	68	69	70	71
5	72	73	74	75	76	77	78	79	80	81	82	83
6	84	85	86	87	88	89	90	91	92	93	94	95
7	96	97	98	99	100	101	102	103	104	105	106	107
8	108	109	110	111	112	113	114	115	116	117	118	119
9	120	121	122	123	124	125	126	127				

To find the note associated to a decimal number just take the column where the number is as the note and the row is the octave. Following the example presented before the corresponding note to Play (decimal 24) button is C1.
As seen at SHIFT+ column of the MIDI table, each of the controls of TEMPUS can send two different messages upon the state of the Shift button. Remember we can permanently engage Shift.
The MIDI note associated with the same control of two different decks is the same but notes are send trough different MIDI channels.
There are 4 available modes. Depending on the mode the controller is, the MIIDI messages will be send through different MIDI channels. User can change MIDI channel via setting software or hold the left deck switch button for 3 sec and press hot cue button 1~4.

TEMPUS MIDI MAP			
BUTTON	MIDI COMMAND	MIDI COMMAND	SHIFT+
KEY & KNOB			
LEFT and RIGHT DECK			
AUTO_LOOP	09,9n,01,7F	09,9n,01,00	0x33
AUTO_LOOP(knob)	0B,Bn,01,41(Increment)	0B,Bn,01,3F(Decrement)	0x1F
FX_ON1	09,9n,02,7F	09,9n,02,00	0x34
FX_ON2	09,9n,03,7F	09,9n,03,00	0x35
PITCH_FADER	0E,En,00,00	0E,En,7F,7F	
IN	09,9n,04,7F	09,9n,04,00	0x36
OUT	09,9n,05,7F	09,9n,05,00	0x37
LOOP_ACTIVE	09,9n,06,7F	09,9n,06,00	0x38
DELETE	09,9n,07,7F	09,9n,07,00	0x39
HOT_CUE1	09,9n,08,7F	09,9n,08,00	0x3A
HOT_CUE2	09,9n,09,7F	09,9n,09,00	0x3B
HOT_CUE3	09,9n,0A,7F	09,9n,0A,00	0x3C
HOT_CUE4	09,9n,0B,7F	09,9n,0B,00	0x3D
SAMPLE1	09,9n,0C,7F	09,9n,0C,00	0x3E
SAMPLE2	09,9n,0D,7F	09,9n,0D,00	0x3F
SAMPLE3	09,9n,0E,7F	09,9n,0E,00	0x40
SAMPLE4	09,9n,0F,7F	09,9n,0F,00	0x41
KEY_LOCK	09,9n,10,7F	09,9n,10,00	0x42
DECK	09,9n,11,7F	09,9n,11,00	0x43
SYNC	09,9n,12,7F	09,9n,12,00	0x44
PITCH_BEND-	09,9n,13,7F	09,9n,13,00	0x45
PITCH_BEND+	09,9n,14,7F	09,9n,14,00	0x46
SCRATCH	09,9n,15,7F	09,9n,15,00	0x47
JOG_WHEEL_TOUCH	09,9n,26,7F	09,9n,26,00	0x58
JOG_WHEEL	0B,Bn,02,41++(Forward)	0B,Bn,02,3F--(Reverse)	0x20
CUE_PLAY	09,9n,16,7F	09,9n,16,00	0x48
CUE	09,9n,17,7F	09,9n,17,00	0x49
PLAY	09,9n,18,7F	09,9n,18,00	0x4A
MIXER			
GAIN	0B,Bn,03,00(Minimun)	0B,Bn,03,7F(Maximum)	0x21
HIGH_KILL	09,9n,19,7F	09,9n,19,00	0x4B
HIGH(knob)	0B,Bn,04,00(Minimun)	0B,Bn,04,7F(Maximum)	0x22
MID_KILL	09,9n,1A,7F	09,9n,1A,00	0x4C
MID(knob)	0B,Bn,05,00(Minimun)	0B,Bn,05,7F(Maximum)	0x23
LOW_KILL	09,9n,1B,7F	09,9n,1B,00	0x4D
LOW(knob)	0B,Bn,06,00(Minimun)	0B,Bn,06,7F(Maximum)	0x24
CH_CUE	09,9n,1C,7F	09,9n,1C,00	0x4E
CHANNEL_FADER	0B,Bn,07,00(Minimun)	0B,Bn,07,7F(Maximum)	0x25
LOAD_AC	09,9n,22,7F	09,9n,22,00	0x54
LOAD_BD	09,9n,23,7F	09,9n,23,00	0x55
EFFECTS			
FX1(2)_SELECT	09,9n,1D,7F	09,9n,1D,00	0x4F
FX1(2)_SELECT(knob)	0B,Bn,08,41(Increment)	0B,Bn,08,3F(Decrement)	0x26
FX1(2)_ON	09,9n,1E,7F	09,9n,1E,00	0x50
FX1(2)_EFX1	09,9n,1F,7F	09,9n,1F,00	0x51
FX1(2)_EFX1(knob)	0B,Bn,09,00(Minimun)	0B,Bn,09,7F(Maximum)	0x27
FX1(2)_EFX2	09,9n,20,7F	09,9n,20,00	0x52
FX1(2)_EFX2(knob)	0B,Bn,0A,00(Minimun)	0B,Bn,0A,7F(Maximum)	0x28
FX1(2)_EFX3	09,9n,21,7F	09,9n,21,00	0x53
FX1(2)_EFX3(knob)	0B,Bn,0B,00(Minimun)	0B,Bn,0B,7F(Maximum)	0x29
CENTER DECK			
SHIFT	09,9x,2D,7F	09,9x,2D,00	
MASTER	0B,Bx,0C,00(Minimun)	0B,Bx,0C,7F(Maximum)	0x2A
BOOTH	0B,Bx,0D,00(Minimun)	0B,Bx,0D,7F(Maximum)	0x2B
BROWSER	09,9x,27,7F	09,9x,27,00	0x59
BROWSER(knob)	0B,Bx,0E,41(Increment)	0B,Bx,0E,3F(Decrement)	0x2C
VIDEO	09,9x,28,7F	09,9x,28,00	0x5A
VIDEO(knob)	0B,Bx,0F,41(Increment)	0B,Bx,0F,3F(Decrement)	0x2D
AUDIO_CROSS_FADER	0B,Bx,10,00(Minimun)	0B,Bx,10,7F(Maximum)	0x2E
VIDEO_CROSS_FADER	0B,Bx,11,00(Minimun)	0B,Bx,117F(Maximum)	0x2F
VIDEO_XF	09,9x,24,7F	09,9x,24,00	0x56
XF_LINK	09,9x,25,7F	09,9x,25,00	0x57
CF_CURVE	0B,Bx,12,00(Minimun)	0B,Bx,11,7F(Maximum)	0x30
CUE_MIXING	0B,Bx,13,00(Minimun)	0B,Bx,12,7F(Maximum)	0x31

TEMPUS MIDI MAP			
BUTTON	MIDI COMMAND	MIDI COMMAND	SHIFT+
CUE_LEVEL	0B,Bx,14,00(Minimun)	0B,Bx,13,7F(Maximum)	0x32
MIC1_LEVEL	0B,Bx,15,00(Minimun)	0B,Bx,14,7F(Maximum)	0x33
MIC2_LEVEL	0B,Bx,16,00(Minimun)	0B,Bx,15,7F(Maximum)	0x34
MIC_TONE	0B,Bx,17,00(Minimun)	0B,Bx,16,7F(Maximum)	0x35
MIC_OFF	09,9x,29,7F	09,9x,29,00	0x5B
MIC_ON	09,9x,2A,7F	09,9x,2A,00	0x5C
MIC_TALK_OVER	09,9x,2B,7F	09,9x,2B,00	0x5D

TEMPUS MIDI MAP		
LEDs	LED ON	LED OFF
LEDS		
LEFT and RIGHT DECK		
FX_ON1	09,9n,02,7F	09,9n,02,00
FX_ON2	09,9n,03,7F	09,9n,03,00
IN	09,9n,04,7F	09,9n,04,00
OUT	09,9n,05,7F	09,9n,05,00
LOOP_ACTIVE	09,9n,06,7F	09,9n,06,00
DELETE	09,9n,07,7F	09,9n,07,00
HOT_CUE1	09,9n,08,7F	09,9n,08,00
HOT_CUE2	09,9n,09,7F	09,9n,09,00
HOT_CUE3	09,9n,0A,7F	09,9n,0A,00
HOT_CUE4	09,9n,0B,7F	09,9n,0B,00
SAMPLE1	09,9n,0C,7F	09,9n,0C,00
SAMPLE2	09,9n,0D,7F	09,9n,0D,00
SAMPLE3	09,9n,0E,7F	09,9n,0E,00
SAMPLE4	09,9n,0F,7F	09,9n,0F,00
KEY_LOCK	09,9n,10,7F	09,9n,10,00
SYNC	09,9n,12,7F	09,9n,12,00
PITCH_BEND-	09,9n,13,7F	09,9n,13,00
PITCH_BEND+	09,9n,14,7F	09,9n,14,00
SCRATCH	09,9n,15,7F	09,9n,15,00
CUE_PLAY	09,9n,16,7F	09,9n,16,00
CUE	09,9n,17,7F	09,9n,17,00
PLAY	09,9n,18,7F	09,9n,18,00
MIXER		
HIGH_KILL	09,9n,19,7F	09,9n,19,00
MID_KILL	09,9n,1A,7F	09,9n,1A,00
KEY_ON	09,9n,26,7F	09,9n,26,00
LOW_KILL	09,9n,1B,7F	09,9n,1B,00
FILTER_ON	09,9n,27,7F	09,9n,27,00
CH_CUE	09,9n,1C,7F	09,9n,1C,00
WHEEL		
JOG_WHEEL1	0B,Bn,01,00	
JOG_WHEEL2	0B,Bn,01,01	
JOG_WHEEL3	0B,Bn,01,02	
JOG_WHEEL4	0B,Bn,01,03	
JOG_WHEEL5	0B,Bn,01,04	
JOG_WHEEL6	0B,Bn,01,05	
JOG_WHEEL7	0B,Bn,01,06	
JOG_WHEEL8	0B,Bn,01,07	
JOG_WHEEL9	0B,Bn,01,08	
JOG_WHEEL10	0B,Bn,01,09	
JOG_WHEEL11	0B,Bn,01,0A	
JOG_WHEEL12	0B,Bn,01,0B	
JOG_WHEEL13	0B,Bn,01,0C	
JOG_WHEEL14	0B,Bn,01,0D	
JOG_WHEEL15	0B,Bn,01,0E	
JOG_WHEEL16	0B,Bn,01,0F	
Vumeter Channel		
CH_METER1	0B,Bn,02,0C	0B,Bn,02,00
CH_METER2	0B,Bn,02,18	0B,Bn,02,00
CH_METER3	0B,Bn,02,24	0B,Bn,02,00

TEMPUS MIDI MAP		
LEDs	LED ON	LED OFF
CH_METER4	0B,Bn,02,30	0B,Bn,02,00
CH_METER5	0B,Bn,02,3C	0B,Bn,02,00
CH_METER6	0B,Bn,02,48	0B,Bn,02,00
CH_METER7	0B,Bn,02,54	0B,Bn,02,00
CH_METER8	0B,Bn,02,60	0B,Bn,02,00
CH_METER9	0B,Bn,02,6C	0B,Bn,02,00
CH_METERA	0B,Bn,02,78	0B,Bn,02,00
EFFECTS		
FX1(2)_ON	09,9n,1E,7F	09,9n,1E,00
FX1(2)_EFX1	09,9n,1F,7F	09,9n,1F,00
FX1(2)_EFX2	09,9n,20,7F	09,9n,20,00
FX1(2)_EFX3	09,9n,21,7F	09,9n,21,00
LOAD_AC	09,9n,22,7F	09,9n,22,00
LOAD_BD	09,9n,23,7F	09,9n,23,00
CENTER DECK		
LEDs	LED ON	LED OFF
TX	09,9x,2E,7F	09,9x,2E,00
FX	09,9x,2F,7F	09,9x,2F,00
VIDEO_XF	09,9x,24,7F	09,9x,24,00
XF_LINK	09,9x,25,7F	09,9x,25,00
Vumeter Master		
MASTER_METER_L1	0B,Bx,03,0C	0B,Bx,03,00
MASTER_METER_L2	0B,Bx,03,18	0B,Bx,03,00
MASTER_METER_L3	0B,Bx,03,24	0B,Bx,03,00
MASTER_METER_L4	0B,Bx,03,30	0B,Bx,03,00
MASTER_METER_L5	0B,Bx,03,3C	0B,Bx,03,00
MASTER_METER_L6	0B,Bx,03,48	0B,Bx,03,00
MASTER_METER_L7	0B,Bx,03,54	0B,Bx,03,00
MASTER_METER_L8	0B,Bx,03,60	0B,Bx,03,00
MASTER_METER_L9	0B,Bx,03,6C	0B,Bx,03,00
MASTER_METER_LA	0B,Bx,03,78	0B,Bx,03,00
MASTER_METER_R1	0B,Bx,04,0C	0B,Bx,04,00
MASTER_METER_R2	0B,Bx,04,18	0B,Bx,04,00
MASTER_METER_R3	0B,Bx,04,24	0B,Bx,04,00
MASTER_METER_R4	0B,Bx,04,30	0B,Bx,04,00
MASTER_METER_R5	0B,Bx,04,3C	0B,Bx,04,00
MASTER_METER_R6	0B,Bx,04,48	0B,Bx,04,00
MASTER_METER_R7	0B,Bx,04,54	0B,Bx,04,00
MASTER_METER_R8	0B,Bx,04,60	0B,Bx,04,00
MASTER_METER_R9	0B,Bx,04,6C	0B,Bx,04,00
MASTER_METER_RA	0B,Bx,04,78	0B,Bx,04,00

	DECK A	DECK B	DECK C	DECK D	CENTER
Mode1	n=0	n=1	n=2	n=3	x=0
Mode2	n=4	n=5	n=6	n=7	x=4
Mode3	n=8	n=9	n=10	n=11	x=8
Mode4	n=12	n=13	n=14	n=15	x=12

NOTE1: n = Midi Channel(0 to 15)
NOTE2: (MIDI id of SHIFT + Sw) = (MIDI id of Sw) + 0x32 , (MIDI id of SHIFT + Ad) = (MIDI id of Ad) + 0x1E.

5.2. Technical specifications

1. GENERAL SECTION

PRODUCT	2 Channel Digital Mixer & MIDI Controller
POWER SOURCE	DC12V, 2.0A ⊖-◉-⊕
POWER CONSUMPTION	24WATTS
DIMENSIONS	410mm (W) X 297mm (D) X 65 mm (H)
WEIGHT	3.22kg

2. INPUT/OUTPUT IMPEDANCE & SENSITIVITY: (EQ FLAT, MAXIMUM GAIN)

2-1.INPUT IMPEDANCE AND REFERENCE INPUT LEVEL:

LINE	47K OHM /-14dBV(200mV)
AUX	47K OHM /-14dBV(200mV)
PHONO	47K OHM /-50dBV(3.16mV)
MIC	10K OHM /-54dBV(1.99mV)

2-2.OUTPUT IMPEDANCE AND REFERENCE OUT LEVEL (EQ FLAT, MAXIMUM GAIN):

MASTER	1K OHM /0dBV (1V)± 2dB
BOOTH	1K OHM /0dBV (1V) ± 2dB
BALANCED	600 OHM /1dBV(1.123V) ± 2dB
PHONES (load=32ohm)	3.3 OHM /4.0dBV(1.60V) ± 2dB

3. FREQUENCY RESPONSE: (EQ FLAT, MAX GAIN, MASTER=0dBV)

LINE	20 - 20K Hz± 2dB
AUX	20 - 20K Hz± 2dB
PHONO	20 - 20K Hz± 2dB (RIAA)
MIC	20 - 20K Hz± 2dB

4. THD + N: (EQ FLAT, MAX GAIN, MASTER=0dBV, 20kHz LPF, A-WEIGHTED)

LINE	LESS THAN 0.02%@ 1KHz
AUX	LESS THAN 0.02%@ 1KHz
PHONO	LESS THAN 0.2%@ 1KHz
MIC	LESS THAN 0.2%@ 1KHz

5. MAXIMUM INPUT: (1KHz, EQ FLAT, GAIN AT 12 O,CLOCK, LOAD=100K OHM, 20kHz LPF, A-WEIGHTED)

LINE	MORE THAN +9.0dBV/ THD<1%
AUX	MORE THAN +9.0dBV/ THD<1%
PHONO	MORE THAN -27.0dBV/ THD<1%
MIC	MORE THAN -31.0dBV/ THD<1%

6. MAX OUTPUT: (EQ FLAT, MAX GAIN, THD=1%, 20kHz LPF, A-WEIGHTED)

MASTER UNBALANCED	MORE THAN +14.0dBV (5.02V) LOAD=100K OHM
MASTER BALANCED	MORE THAN +15.0dBV (5.63V) LOAD=600 OHM
BOOTH	MORE THAN +14.0dBV (5.02V) LOAD=100K OHM
PHONES	MORE THAN +4.0dBV (1.60V) LOAD=32 OHM

7. LINE1/LINE2/AUX INPUT S/N RATIO: (MAX GAIN, EQ FLAT, 20KHz LPF, A-WEIGHTED, MASTER=0dBV)

MASTER UNBALANCED	MORE THAN 80dB
MASTER BALANCED	MORE THAN 80dB
BOOTH	MORE THAN 80dB
PHONES	MORE THAN 80dB

8. PHONOGRAPH INPUT S/N RATIO: (MAX GAIN,EQ FLAT,20KHz LPF,A-WEIGHTED, MASTER=0dBV)

MASTER UNBALANCED MORE THAN 75dB

9. MIC1/MIC2 INPUT S/N RATIO: (MAX GAIN, EQ FLAT, 20KHz LPF, A-WEIGHTED, MASTER=0dBV)

MASTER UNBALANCED MORE THAN 70dB

10. CROSSTALK: (MAX GAIN, EQ FLAT, 20KHz LPF, A-WEIGHTED,MASTER=0dBV OUTPUT)

LINE1/2	MORE THAN 75dB @1KHz BETWEEN L AND R CHANNEL
LINE1/2	MORE THAN 75dB @1KHz BETWEEN CHANNELS
AUX	MORE THAN 75dB @1KHz BETWEEN L AND R CHANNEL
AUX	MORE THAN 75dB @1KHz BETWEEN CHANNELS

11. FADER KILL: (REFERENCE INPUT LEVEL,EQ FLAT, MAXIMUM GAIN)

More than 80dB at 1K Hz for channel and cross faders.

12. TALKOVER: -30dB ± 1dB

13. CHANNEL BALANCE: Within 1dB

14. TONE, EQ:(Flat setting 0±2dB)

MIC: -28± 1dB at 100Hz
-30± 1dB at 10kHz

15. EQUALIZER RESPONSE: (Flat setting 0±2dB)

CHANNEL:

(1) Low Band: (Low Band center frequency is 60Hz)

Maximum level:	+10 ± 1dB (at 60Hz)
Minimum level(Kill):	Less than -34dB (at 60Hz)

(2) Middle Band: (Middle Band center frequency is 1KHz)

Maximum level:	+10 ± 1dB (at 1KHz)
Minimum level(Kill):	Less than -34dB (at 1KHz)

(3) High Band: (Hi Band center frequency is 16KHz)

Maximum level:	+10 ± 1dB (at 16KHz)
Minimum level(Kill):	Less than -34dB (at 16KHz)

16. NOTES

(1) The specifications are subject to change to any improvement by negotiations in advance.
(2) The parts are subject to change to any improvement within the range of the specifications.

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